Can. Statistics bureau
[General publications]
[G-37] Labour costs in Canada, mines, quarries and oil wells, 1969. 1971.

Ontario Ministry of Housing

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

STATUS/POSITION OF B.M.E.C.
APPLICATIONS/AUTHORIZATIONS

B.M.E.C. "et al"
7 November 1986

B.M.E.C #	VALIDATED	AMENDED	TERMINATED	REMARKS
76-1-1	nil	nil	16 Sep'76	position paper only
76-2-2	12 Jan'78	9 Aug'79	31 Dec'80	expired
76-3-3	31 Mar'77		31 Dec'78	expired
76-4-4	29 Jul'77		7 Nov'86	ceased mfg.
77-1-5	8 Sep'77		20 Oct'83	ceased mfg.
77-2-6	nil		14 Dec'78	lack of info.
77-3-7	nil		25 Oct'77	position paper only
77-4-8	nil		18 Dec'78	lack of info.
78-1-9	13 Nov'80		20 Oct'83	see # 83-2-61
78-2-10	nil		20 Oct'83	now in O.B.C
78-3-11	nil		20 Oct'83	now in O.B.C
78-4-12	14 Dec'78	12 Jul'79		
78-5-13	19 Apr'79	11 Jun'81 11 Feb'82 13 May'82 7 Nov'86		
78-6-14	19 Apr'79	11 Jun'81 13 May'82	9 Sep'82	see # 82-10-48
78-7-15	1 May'80			
79-1-16	14 Jun'79		30 Nov'83	now in O.B.C
79-2-17	9 Aug'79			
79-3-18	9 Aug'79		30 Nov'83	now in O.B.C
79-4-19	8 Nov'79	11 Jun'81 11 Feb'82 30 Nov'83 7 Nov'86		
79-5-20	8 Nov'79		30 Nov'83	now in O.B.C
79-6-21	13 Dec'79			
79-7-22	13 Mar'80		30 Nov'83	now in O.B.C
80-1-23	11 Sep'80			
80-2-24	11 Sep'80			

.../2

B.M.E.C #	VALIDATED	AMENDED	TERMINATED	REMARKS
80-3-25	13 Nov'80	17 Nov'82 7 Nov'86		
80-4-26	13 Nov'80	11 Feb'82 30 Nov'83 7 Nov'86		
80-5-27	nil		12 Feb'81	lack of info.
80-6-28	12 Feb'81		30 Nov'83	now in O.B.C
80-7-29	12 Feb'81	17 Nov'82 7 Nov'86		
80-8-30	12 Feb'81		30 Nov'83	now in O.B.C
81-1-31	11 Jun'81	30 Nov'83 7 Nov'86		
81-2-32	11 Jun'81	17 Nov'82 7 Nov'86		
81-3-33	nil		11 Feb'82	see # 85-10-88
81-4-34	nil		10 Jun'82	lack of info.
81-5-35	nil		22 Jun'82	lack of info.
81-6-36	10 Sep'81		7 Nov'86	now in O.B.C
81-7-37	nil		10 Sep'81	position paper only
81-8-38	11 Feb'82	30 Nov'83 7 Nov'86		
82-1-39	nil		14 Apr'83	lack of info.
82-2-40	13 May'82	12 Jan'83 7 Nov'86		
82-3-41	13 May'82	7 Nov'86		
82-4-42	8 Jul'82			
82-5-43	13 May'82	7 Nov'86		
82-6-44	14 Oct'82		20 Oct'83	see # 83-2-61
82-7-45	8 Jul'82			
82-8-46	8 Jul'82	14 Apr'83		
82-9-47	9 Sep'82	16 Oct'85		
82-10-48	9 Sep'82	7 Nov'86		
82-11-49	9 Sep'82			
82-12-5	17 Nov'82			
82-13-51	14 Oct'82			
82-14-52	17 Nov'82	7 Nov'86		
82-15-53	17 Nov'82	20 Oct'83	7 Nov'86	included in other Authori-zations
82-16-54	20 Oct'83	16 Oct'85		
82-17-55	14 Apr'83	7 Nov'86		

.../3

B.M.E.C #	VALIDATED	AMENDED	TERMINATED	REMARKS
82-18-56	14 Apr'83			
82-19-57	14 Apr'83			
82-20-58	14 Apr'83	2 May'85 7 Nov'86		
82-21-59	14 Apr'83	16 May'84 7 Nov'86		
83-1-60	20 Oct'83	7 Nov'86		
83-2-61	20 Oct'83	11 May'84 13 Dec'84 7 Nov'86		
83-3-62	20 Oct'83		7 Nov'86	now in O.B.C
83-4-63	22 Mar'84			
83-5-64	22 Mar'84			
83-6-65	22 Mar'84			
83-7-66	25 Apr'84			
84-1-67	3 May'84			
84-2-68	3 May'84			
84-3-69	5 Sep'84			
84-4-70	nil		27 May'85	lack of info.
84-5-71	13 Dec'84			
84-6-72	13 Dec'84			
84-7-73	16 Oct'85			
84-8-74	16 Oct'85			
84-9-75	21 May'85	7 Nov'86		
84-10-76	16 Oct'85			
84-11-77	16 Oct'85			
84-12-78	21 May'85	7 Nov'86		
85-1-79	21 May'85			
85-2-80	16 Oct'85			
85-3-81	21 May'85	7 Nov'86		
85-4-82	16 Oct'85			
85-5-83	7 Nov'86			
85-6-84	11 Dec'85		7 Nov'86	now in O.B.C
85-7-85	15 Mar'86	7 Nov'86		
85-8-86	15 Mar'86			
85-9-87	nil			"Hold" for info
85-10-88	15 Mar'86			
85-11-89	7 Nov'86			
85-12-90	15 Mar'86		7 Nov'86	now in O.B.C
86-1-91	nil			"Hold" for info
86-2-92	7 Nov'86			
86-3-93	nil			"Hold" for info
86-4-94	nil			"Hold" for info
86-5-95	7 Nov'86			
86-6-96	7 Nov'86			
86-7-97	7 Nov'86			

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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AMENDMENTS TO AUTHORIZATIONS

B.M.E.C. # as noted
7 November 1986

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF authorizations:

B.M.E.C. #78-5-13	
79-4-19	B.M.E.C. #82-5-43
80-4-26	82-10-48
81-1-31	82-17-55
81-8-38	83-1-60
82-2-40	84-9-75
82-3-41	85-3-81

ON THE SUBJECT OF:

Kitchen Exhaust Heat Reclaim systems

SHALL BE AMENDED AS FOLLOWS:

Where any reference to date has been made by the APPLICANT or the COMMISSION on any submission or authorization to the N.F.P.A. 96 regardless of the date it shall read as of the date proclaimed for amendments to the Ontario Building code.

REASONS:

To forwarn all parties involved of the updating of relevant standards in the forthcoming amendments to the Ontario Building code and maintain uniformity to all parties on the subject matter.

MOVED AND ADOPTED THIS 7th DAY OF NOVEMBER, 1986 BY THE BUILDING MATERIALS EVALUATION COMMISSION.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDMENTS TO AUTHORIZATIONS

B.M.E.C. #
as noted
7 November 1986

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF authorizations:

B.M.E.C. # dated up to and including
7 November 1986

ON THE SUBJECT OF:

Any material or system.

SHALL BE AMENDED AS FOLLOWS:

These five (5) typical paragraphs shall be contained in all previous authorizations:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/...

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system dand/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

REASONS: To update all authroizations and delete similar wording and to maintain standard paragraphs.

MOVED AND ADOPTED THIS 7th DAY OF NOVEMBER, 1986 BY THE BUILDING MATERIALS EVALUATION COMMISSION.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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TERMINATION OF AUTHORIZATION

B.M.E.C. #76-4-4
29 July 1977

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980

AND IN THE MATTER OF AUTHORIZATION TO:

Cera Heat Industries Limited
P.O. Box 59
Port Robinson, Ontario
LOS 1KO

ON THE SUBJECT OF:

Fireplace Inserts/Liner

SHALL BE TERMINATED AS FOLLOWS:

Subject to paragraph six of the Authorization, no further installations shall be made as of the date of this termination.

REASONS:

The manufacturer has discontinued production and marketing of Bellfires Fireplace Inserts/Liner. The manufacturer has requested that this authorization be allowed to lapse. However, if the manufacturer decides to return to the Bellfires concept at some future date; they may make application to the Commission at any time in the future.

MOVED AND ADOPTED THIS 7 November 1986 BY THE BUILDING MATERIALS EVALUATION COMMISSION

Ontario
Ministry of Municipal Affairs and Housing

Building Code Commission
Building Materials Evaluation Commission

Rulings

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B.M.E.C. #77-1-5
8 September 1977

TERMINATION OF AUTHORIZATION

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980, Chapter 51

AND IN THE MATTER OF AUTHORIZATION TO:

Fibre Therm Croporation
c/o Park Lane Insulators
2600 John Street
Unit 22
Markham, Ontario
L3R 3W3

ON THE SUBJECT OF:

Fibre Therm Cellulose Fiber Loose Fill Insulation.

SHALL BE TERMINATED AS FOLLOWS:

Subject to paragraphs 1 to 4 of Authorization B.M.E.C. #77-1-5, no further installations shall be made as of the date of this termination.

REASON:

Subject to paragraph 4 of the Authorization the applicant has submitted that they no longer are in the manufacturing of cellulose insulation.

MOVED AND ADOPTED THIS 20 DAY OF OCTOBER 1983, BY THE BUILDING MATERIALS EVALUATION COMMISSION.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

TERMINATION OF AUTHORIZATION

B.M.E.C. #77-3-7
25 October 1977

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980

AND IN THE MATTER OF AUTHORIZATION TO:

G.L.E.
14 Connell Court
Toronto, Ontario
M8Z 1E7

ON THE SUBJECT OF:

Self Powered Exit Sign

SHALL BE TERMINATED AS FOLLOWS:

Subject to a response by the Building Materials Evaluation Commission on 25 October 1977, no installations were ever constructed.

REASONS:

The applicant allowed this application to lapse and reapplied as an agent to another applicant. For further reference see Authorization by B.M.E.C. #84-3-69, 5 September 1984.

MOVED AND ADOPTED THIS 7 November 1986 BY THE BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

TERMINATION OF AUTHORIZATION

B.M.E.C. #78-3-11
13 April 1978

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980

AND IN THE MATTER OF AUTHORIZATION TO:

Weatherproof Insulation Ltd.
7575 Kimbel Street
Mississauga, Ontario
L5S 1C8

ON THE SUBJECT OF:

Cellulose Fibre Insulation

SHALL BE TERMINATED AS FOLLOWS:

Subject to a position paper 25 April 1978, no further installations shall be made as of the date of this termination.

REASONS:

The newly amended Ontario Building Code, Ontario Regulation 419/86, becomes effective on 20th October 1986 and the subject matter is now included in Article 9.26.3.3., therefore there is no need for a B.M.E.C. authorization.

MOVED AND ADOPTED THIS 7 November 1986 BY THE BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

TERMINATION OF AUTHORIZATION

B.M.E.C. #78-6-14
19 April 1979

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF AUTHORIZATION TO:

Indusco Sales Limited
48 Chauncey Avenue
Toronto, Ontario
M8Z 2Z4

ON THE SUBJECT OF:

Kitchen exhaust air heat reclaim system.

SHALL BE TERMINATED AS FOLLOWS:

Subject to paragraph one of the Authorization, no further installations shall be made as of the date of this termination.

REASONS:

Subject to paragraph three of the Authorization, the manufacturer has submitted a new application for revisions and additions to the subject matter.
The new authorization is B.M.E.C. #82-10-48

MOVED AND ADOPTED THIS 9th DAY SEPTEMBER, 1982. BY THE BUILDING MATERIALS EVALUATION COMMISSION.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

AMENDMENTS TO AUTHORIZATIONS

B.M.E.C. # as noted
17 November 1982

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF Authorizations;

B.M.E.C. #80-3-25
80-7-29
81-2-32

ON THE SUBJECT OF:

Electro - Magnetic Locking Systems

SHALL BE AMENDED AS FOLLOWS:

(a) change paragraph 7 to read ....

7. The complete system of Electro - Magnetic Locking Devices shall be installed and approved in conformance to CAN 4-S524-M82 and maintained in conformance to the Ontario Regulation 730/81, Fire Code, Section 6.3.

(b)(i) change paragraph 8 (a) to read "the actuation of the initial stage of the fire alarm systems or"

(ii) change paragraph 8 (c) where it reads "National Fire Code of Canada 1980" to read, "Ontario Regulation 730/81, Fire Code,"

(c) change paragraph 9. where it reads "2 ft." to now read "0.6 m (2 ft.)"

(d) delete paragraph 10 in lieu of new paragraph 10 as follows ....

10. A legible sign with 25 mm (1 in.) high by 20 mm (3/4 in.) wide and 5 mm (¼in.) stroke lettering, and permanently mounted and maintained at all times on each door equipped with these devices. Such signs shall be mounted at 1.4m(4ft. 6in.) from finished floor to the bottom of such sign and shall state:

EMERGENCY EXIT
UNLOCKED BY FIRE ALARM

(e) change paragraph 11 where it reads "10 ft." to now read "100 lx (10 ft.candles)"

REASONS:

To update reference to the Ontario Fire Code, metric measurements and the latest standard, to reflect the use and experience on the sign so as not to put too much emphasis on using the fire alarm to release the door, also to show the intent on initial stage of a two stage fire alarm system.

MOVED AND ADOPTED THIS 17 DAY OF NOVEMBER, 1982 BY THE BUILDING MATERIALS EVALUATION COMMISSION.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

AMENDED
#80-3-25
7 November
1986

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Locknetics
131 Leeder Hill Drive
Hamden, Connecticut
U.S.A. 06517

AGENT:

Stegeweit and Maguire Inc.
2395 Cawthra Road, Unit 22
Mississauga, Ontario
L5A 2W8

ON THE SUBJECT OF:

"Powerlock", or 271 series MSL, Electromagnetic locking devices for installation on an exit or access to exit door(s) or emergency access to floor areas.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

.../2

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This complete system of Electromagnetic locking devices shall be installed and approved in conformance to CAN 4-S524-M82 and maintained in conformance to Ontario Regulation 730/81, Fire Code, Section 6.3. except as noted in the Building Code or stated herein.

7. Card identifiers and/or microprocessors with or without time delay to a maximum of 15 seconds may be used in addition to this ancillary device of electromagnetic locking device provided that:

   (a) the required sign and lettering have the added words... OR KEEP PUSHING DOOR UNLOCKS IN 15 SECONDS

8. This electromagnetic locking device may be installed on emergency access to floor areas from exit stairs, provided that conformance to the Code and this Authorization are met from the exit stair side of the access to the floor area, as well as from the floor area side of the exit to the stair.

9. A further limitation only on the 271 series MSL, there shall be no installations in the floor or bottom rail of any door.

DATED at Toronto this 7th day in the month of November in the year 1986 for authorization #80-3-25 on behalf of:

BUILDING M RIALS EVALUATION COMMISSION

11. Except where a building face is adjacent to a street, the building face shall have a minimum limiting distance of

(a) 6 m (20 ft.) for buildings up to and including seven storeys in building height, and

(b) 12 m (40 ft.) for buildings exceeding seven storeys in building height, and

(c) building height shall be as defined by the Ontario Building Code.

DATED at Kingston this 15th day in the month of March in the year 1986 for authorization #85-8-86 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

AMENDED
#80-7-29
7 November
1986

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Security Engineering
61 East Main Street
Forestville, Connecticut
U.S.A.

AGENT:

Rutherford Controls Ltd.
1425 Bishop Street
Cambridge, Ontario
N1R 6J9

ON THE SUBJECT OF:

Series #3900, Electromagnetic locking devices for installation on an exit or access to exit door(s) or emergency access to floor areas.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

.../2

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This complete system of Electromagnetic locking devices shall be installed and approved in conformance to CAN 4-S524-M82 and maintained in conformance to Ontario Regulation 730/81, Fire Code, Section 6.3. except as noted in the Building Code or stated herein.

7. Card identifiers and/or microprocessors with or without time delay to a maximum of 15 seconds may be used in addition to this ancillary device of electromagnetic locking device provided that:

   (a) the required sign and lettering have the added words OR KEEP PUSHING DOOR UNLOCKS IN 15 SECONDS

8. This electromagnetic locking device may be installed on emergency access to floor areas from exit stairs, provided that conformance to the Code and this Authorization are met from the exit stair side of the access to the floor area, as well as from the floor area side of the exit to the stair.

DATED at Toronto this 7th day in the month of November in the year 1986 for authorization #80-7-29 on behalf of:

BUILDING TERIALS EVALUATION COMMISSION

Ministry of Consumer and Commercial Relations
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 400 University Ave., Toronto M7A 2J9.

FIRE RESISTANCE RATING OF A ROOF

B.C.C #80-15-70
18 February 1981

General Description of Project

An existing Group E, single storey structure forming part of a shopping mall, proposed to construct a second storey for the purpose of merchandise storage, offices and retail sales.

Reason for Application

Non-conformance of Clause 3.2.2.35.(2)(f) of the Ontario Building Code in the matter of roof assembly is required to have a 1 hr. fire resistance rating.

Applicant's position

The new second floor will be constructed in such a manner that both first and second floors will have either direct access to grade or access to grade by means of exit stairs. Means of egress to grade on each level will be independent of the other. Both floors are approximately 80,600 sq. ft. and are to be sprinklered; the roof of the new addition will be constructed of unprotected steel. Automatic sprinklers will be provided above and below this suspended ceiling. While the requirements in the National Building Code limit the waiver of the 1 hr. roof fire resistance rating to buildings of one storey in height, this situation is somewhat similar to a one storey structure in which the use of unprotected roof steel is commonly accepted where the building is sprinklered.

Building Official's position

This structure is connected to the mall with 1,000's of square feet more in building area and no firewall or separation exists. Exiting from the building is partially combined and just satisfies the Code. The main concerns are the reliability of the sprinkler system, that sufficient exit facilities are maintained, the danger of collapse in the precast construction under fire conditions and the lack of fully integrated fire alarm system.

Commission ruling

In favour of the Building Official. It is the decision of the Building Code Commission that the applicant's proposed structure at Burlington Mall, 777 Guelph Line, Burlington, Ontario does not meet the requirements of the Ontario Building Code in the matter of Sentences 3.2.2.35.(1) and (2).

Reasons for the decision

The Code is specific in the requirement that roof assemblies have a one hour fire resistance rating. The proposed "equivalent protection measures" do not comply with the letter or intent of the Ontario Building Code.

Ministry of Consumer and Commercial Relations
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 400 University Ave., Toronto M7A 2J9.

STANDPIPE AND HOSE SYSTEM

B.C.C #80-16-71
9 March 1981

General Description of Project

Major additions to three existing buildings of Group F Div. 3 and within the vast complex of Algoma Steel Corporation, Sault Ste. Marie. The structures are all over 30,000 sq. ft. and are one storey in height, of noncombustible construction and are primarily unheated. These buildings are essentially used for the storage of steel which is noncombustible.

Reason for Application

Clause 3.2.5.4.(1)(b) of the Ontario Building Code requires standpipe and hose system when a building area is greater than that shown in Table 3.2.5.A.

Applicant's position

Due to the fact that all buildings are of noncombustible construction, one storey in height, no fire load within, of low occupancy and unheated. Also more exits are installed than required by the Code, and on-site 24 hr. professional trained fire brigade, fully equipped with firehall, fire trucks, ambulance, van trucks, two way radio and telephone. Hydrants are well located around the entire site, thus affording the fire fighters the full use of 2½" water hoses should the need arise. These services would more than fulfill the requirements for a standpipe and hose system that is required by the O.B.C.

Building Official's position

There are no provisions in the Building Code to allow deletion by the Building Official of this requirement for the reasons stipulated by the owners.

Commission ruling

In favour of the Applicant. That the buildings described in Application number 80-16-71 Algoma Steel Corporation located in Sault Ste. Marie, Ontario have a sufficiency of compliance with the Ontario Building Code Regulation 925/75.

Reasons for the Decision

The Ontario Building Code Commission has satisfied itself that due to the specific manufacturing process of the buildings described in the application. The introduction of a Standpipe and Hose System could introduce a potential explosive fire hazard, and is satisfied that the existing in House-on site fire Service, fulfill the necessary life safety requirements, and satisfy the requirements of the Ontario Building Code - Ontario Regulation 925/75.

Government Publications

Ministry of Consumer and Commercial Relations
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 400 University Ave., Toronto M7A 2J9.

BUILDING SIZE AND CONSTRUCTION RELATIVE TO OCCUPANCY

B.C.C #80-17-72
9 March 1981

General Description

This extremely large bulk raw sugar storage warehouse is proposed to be built adjacent to the existing refinery. The construction includes 12 ft. high concrete walls, with wood frame, wood clad and dome roof. This will cover approximately 150 ft. x 390 ft., for an area of 58,500 sq. ft. and will store about 35,000 tons of raw sugar. An exterior paved surface will surround 100% of its perimeter with a minimum of 78% remaining permanently unobstructed to vehicular traffic, while at the same time facing three streets.

Reason for Application

The structure being classified as Group F Division 2, and based on the floor area the Building Official has categorized the building as requiring to conform to O.B.C Article 3.2.2.42. and as such must have either a 3/4 hour rated roof assembly or a fully fire retardant treated roof assembly.

Applicant's position

Unoccupied bulk storage facilities for warehousing of raw agricultural products such as this proposed building, appear to be a type or class which does not truly belong in either of the boxes of Table 3.1.2.A. In light of all the mitigating factors and most particularly because of the nature of the stored sugar, whereby a rated roof assembly cannot appreciably diminish the hazard posed by the completed and loaded structure, it is the Applicant's contention that a sufficiency of compliance would result from conformance to Article 3.2.2.41.

Building Official's position

Although the building has no manufacturing, fabricating or processing within the new structure, the O.B.C does not give the inspector any choice but to require compliance with Article 3.2.2.42.

Commission ruling

In favour of the Applicant. That Application #80-17-72 in reference to a Sugar Bulk Storage Building to be constructed at 1123 Farewell Street, Oshawa has sufficiency of compliance with Article 3.2.2.41. of the Ontario Building Regulation 925/75.

Reasons

The building will...

1) Have very low occupant loading.
2) Have access for fire fighting services on 3 streets.
3) Be fully sprinklered.
4) For storage only.

Ontario Ministry of Consumer and Commercial Relations

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 400 University Ave., Toronto M7A 2J9.

DISTANCE BETWEEN EXITS

B.C.C #81-1-73
29 April 1981

General Description of Project

A newly constructed sixteen storey Senior Citizen apartment building, the first three floors have exits served by one set of scissor stairs and one set of conventional stairs. The remaining floors are served only by the scissor stairs.

Reason for Application

The distance between the two exit doors serving the scissor stairs was approximately 25'-6" when measured on the hinged side of the doors, whereas the O.B.C Sentence 3.4.2.2.(1) requires not less than 30'-0" distance.

Applicant's position

No conscious effort to contravene the Ontario Building Code has been intended, in fact the overall design of this building has incorporated features exceeding the minimum requirements of the Building Code. To insure a greater support of life safety to the occupant the designer has included the following... distance from door knob to door knob of these exit doors are over 30'-0", all suite entry doors are in close proximity to these exits with a maximum distance of 12'-0" door knob to door knob, low occupancy of 8 suites per floor, the building conforms to high rise requirements and has P.O.C detectors in each suite, heat detectors in the corridors connected to the general alarm which is connected to the Fire Hall, building has voice communication system and emergency light and generator system. As an extra safety factor provision has been made to pressurize the stairwells and elevator shaft.

Building Official's position

This newly constructed 126 suite, sixteen storey Senior Citizen's highrise apartment building has a scissor stair system in an exit shaft serving the dwelling units, and the distance between the two exits is less than the 30'-0" specifically set out in the Ontario Building Code. The first three floors do have a second set of conventional stairs, but there are no other known provisions in the O.B.C to allow variances for the other floors.

Commission ruling

In favour of the Applicant. It is the decision of the Building Code Commission that the exits and life support systems proposed in Application 81-1-73 show sufficiency of compliance with the intent of the Ontario Building Code.

Ministry of Consumer and Commercial Relations
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 400 University Ave., Toronto M7A 2J9.

FIRE RESISTANCE RATING
FOR FLOOR ASSEMBLIES

B.C.C #81-2-74
29 April 1981

General Description of Project

An existing small one storey combustible constructed building had a change of occupancy, and renovated the first floor to be offices of a property management company, the basement is to be for storage of used electrical and plumbing fixtures, sheet glass, ceiling tiles, paint, ladders etc.

Reason for Application

Article 9.10.8.1. and Table 9.10.8.A. require a 3/4 hr. fire resistance rating on floor assemblies above the basement. This would require dry wall to be installed on the basement ceiling.

Applicant's position

To install dry wall on the basement ceiling would be very difficult to cover the ceiling since the ceiling is low, ductwork and pipes are everywhere, as well as beams. It would entail a lot of expense to do this work and it would further reduce the head room. In lieu of this dry wall the owner proposes to install smoke detectors, fire alarm system, and additional fire extinguishers.

Building Official's position

The proposed "fire safety measures" are not an alternative to a "fire rated ceiling" in the fact that they are not a separation.

Although not required by the O.B.C the permit drawings did show a sprinkler system in the basement, but this has never been installed. The requirement for 3/4 hr. fire resistance rating for the floor above this basement namely dry wall to be installed on the ceiling of the basement has not been provided in accordance with Article 9.10.8.1. and Table 9.10.8.A.

Commission ruling

In favour of the Building Official. It is the decision of the Building Code Commission that the applicant's proposed fire detection measures will not meet the requirements of the Ontario Building Code with respect to Article 9.10.8.1. and Table 9.10.8.A.

Reasons

The code is quite specific with respect to minimum fire resistive ratings for structural members and assemblies.

Ministry of Consumer and Commercial Relations
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 400 University Ave., Toronto M7A 2J9.

PROTECTION OF OPENINGS BETWEEN STOREYS

B.C.C.#81-3-75
May 20, 1981

General Description of Project

Presently under construction a three storey office building of noncombustible construction complete with Code conforming exits.

Reason for Application

One tenant who was to occupy the second and third floors requested an extra communication stair between these floors but did not want these stairs to be enclosed as required in O.B.C. 3.1.7.4.

Application position

Due to the nature of his business it is necessary to install an extra set of communication stairs that would be open and free of doors to allow movement of product and persons. It is proposed to install at the second floor ceiling a smoke baffle and close spaced sprinkler heads, also a P.O.C. detector on both second and third floors.

Building Official position

In this matter the O.B.C. requires a fire rated enclosure for all openings in a fire separation. The travel distance to the required exits is minimum because the building area is small.

Commission ruling

In favour of the Applicant. It is the Decision of the Building Code Commission that application #81-3-75 demonstrates sufficiency of compliance with the intent of the Ontario Building Code Regulation 925/75.

REASON FOR THE DECISION....

Is that the required means of egress together with the other life safety devices and precaution which will be provided for the subject building providing adequate means of protection of life and property.

This decision is based upon the following details as shown on the proposed drawing Exhibit #4.

(1) The 2 smoke Detection Devices shall be installed in accordance with Sentence 9.10.18.13.(2)

(2) 4 sprinkler heads being installed and connected to the water service with a pressure supervised alarm bell.

(3) The smoke baffle being installed at the 2nd floor ceiling in accordance with NFPA 13.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

AMENDED
#81-2-32
7 November
1986

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Securistor Ltd.
Papineau 9615, Room - 1
Montreal, Quebec
H2B 1Z6

ON THE SUBJECT OF:

#EM 501, Electromagnetic locking devices for installation on an exit or access to exit door(s) or emergency access to floor areas.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination unless prior approval is granted for such revision or change by the COMMISSION.

.../2

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This complete system of Electromagnetic locking devices shall be installed and approved in conformance to CAN 4-S524-M82 and maintained in conformance to Ontario Regulation 730/81, Fire Code, Section 6.3. except as noted in the Building Code or stated herein.

7. Card identifiers and/or microprocessors with or without time delay to a maximum of 15 seconds may be used in addition to this ancillary device of electromagnetic locking device provided that:

   (a) the required sign and lettering have the added words... OR KEEP PUSHING DOOR UNLOCKS IN 15 SECONDS

8. This electromagnetic locking device may be installed on emergency access to floor areas from exit stairs, provided that conformance to the Code and this Authorization are met from the exit stair side of the access to the floor area, as well as from the floor area side of the exit to the stair.

DATED at Toronto this 7th day in the month of November in the year 1986 for authorization #81-2-32 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

TERMINATION OF POSITION PAPER

B.M.E.C. #81-3-33
11 February 1982

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980

ON THE SUBJECT OF:

Outsulation TM, Exterior Wall Insulation and Finish Systems.

INFORMATION:

This position paper #81-3-33 dated 11 February 1982, is hereby terminated in lieu of an Authorization #85-10-88.

REASONS:

The manufacturer has submitted new test data to the satisfaction of the Commission to cover a broader scope of the subject matter.

MOVED AND ADOPTED THIS 15th DAY OF MARCH 1986 BY THE BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Consumer and Commercial Relations
Ontario

Building Code Commission
Building Materials Evaluation Commission

Government Publications

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 400 University Ave., Toronto M7A 2J9.

STANDPIPE AND HOSE SYSTEM

B.C.C #81-4-76
20 May 1981

General Description of Project

A newly constructed addition of approximately 33,500 sq. ft. which is a single storey warehouse constructed of non-combustible materials with a Class I roofing system and classified as a Group F division 3 building by the Ontario Building Code.

Reason for Application

Clause 3.2.5.4.(1)(b) of the O.B.C requires standpipes and hose system when a building area is greater than that shown in Table 3.2.5.A.

Applicant's position

The use of this new addition is to store meat products at sub zero -10°F temperature. There is not a fire protection system that is tested and proven to be safe and operational in this sub-zero environment. This freezer warehouse has special design features to provide air tight construction from the footings, walls, roof and backup refrigeration units through to the operation and maintenance. The interior walls, ceilings and product content are covered in a thin layer of ice, therefore, the possibility of fire spreading is remote.

Building Official's position

The Code does not give any concessions for different types of F-3 buildings, or permit alternative solutions to this requirement. It is understood that this requirement is not practical in freezer type buildings.

Commission ruling

In favour of the Applicant, that the Freezer portion of the building described in Application number 81-4-76 and in the name of Metro Provisions Meat Packers located at 401 Canartic Drive, Downsview, Ontario has a sufficiency of compliance with the Ontario Building Code Regulation 925/75.

Reasons

The Building Code Commission has satisfied itself that due to the specific use and occupancy of the building described in the Application that

(a) the introduction of a standpipe and hose system could result in a potential Life Safety Hazard,

(b) that the exit systems, exterior fire routes, and fire hydrants fulfil the necessary life safety requirements of the Ontario Building Code,

(c) the building is of non-combustible construction and has an extremely low fire load.

Ministry of Consumer and Commercial Relations
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Government Publications

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 400 University Ave., Toronto M7A 2J9.

FIRE SEPARATION FOR EXITS

B.C.C. #81-5-77
3 June 1981

General Description of Project

An existing two storey house was converted into a Squash Club by the addition of two squash courts at the rear of the house while the remainder of the house was renovated for shower and locker rooms, lounge rooms, viewing area snack bar and an office.

Reason for Application

Sentence 3.4.5.1.(1) of the Ontario Building Code requires every exit to be separated from the remainder of the building and this was not the case with exit at the end of the corridor between the existing house and the new squash courts.

Applicant's position

Due to the configuration of the squash court doors and the locker room doors, an enclosed exit stair would add another door only to create a dangerous situation for the persons on the squash court. As it is now the squash courts and corridor are open at the ceiling and any smoke will be dissipated throughout this extremely large area. This new addition is of non-combustible construction and several early warning detectors are installed throughout the entire new and existing building.

Building Official's position

The door from the squash court is located such that it will be within the subject exit enclosure and this would also be contrary to O.B.C. Sentences 3.4.5.2.(5) and (6). The existing rear wall of the house is a good fire separation between the squash courts and house except that the viewing window is of plain glass.

Commission ruling

In favour of the Applicant. It is the decision of this commission on application #81-5-77 that the Applicant's proposals, as listed hereunder, have a sufficiency of compliance with the Ontario Building Code Regulation 925/75.

These proposals are:

(1) To achieve a fire separation between the existing building and the new addition by installing wire glass sizes conforming to the Ontario Building Code with 28 ga. sheet steel frame protection to the windows on the lounge side, and rated doors on both levels in existing frames.

(2) The installation of P.O.C. detectors in the lower corridor, upper gallery, lounge and mechanical rooms to conform with Sentence 3.3.4.9.(4) of the Ontario Building Code.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

TERMINATION OF AUTHORIZATION

B.M.E.C. #81-6-36
10 September, 1986

IN THE MATTER OF section 18(4) (b) of the Building Code Act, R.S.O. 1980

AND IN THE MATTER OF AUTHORIZATION TO:

Jetmaster (Pty) Ltd.,
Jetmaster Canada Inc.
1050 McNicoll Avenue
Willowdale, Ontario

ON THE SUBJECT OF:

Fireplace Insert/Liner

SHALL BE TERMINATED AS FOLLOWS:

Subject to paragraphs 1 and 5 of the B.M.E.C. authorization.

REASONS;

The newly amended Ontario Building Code, Ontario Regulation 419/86, becomes effective on 20th October 1986 and the subject matter is now included in Article 9.22.10.1. therefore there is no need for a B.M.E.C. authorization.

MOVED AND ADOPTED THIS 7 November 1986 BY THE BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Consumer and Commercial Relations
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 400 University Ave., Toronto M7A 2J9.

SPATIAL SEPARATIONS
BETWEEN BUILDINGS

B.C.C. #81-6-78
3 JUNE, 1981

General Description of Project.

A proposed second storey addition to an existing house required windows in the side adjacent to the mutual driveway of the neighbouring property.

Reason for Application

Sentence 9.10.15.1.(1) will not allow the proposed unprotected window openings with the spatial separation between these houses.

Applicant's position

That they are in compliance with Sentence 9.10.15.8.(2), because the mutual driveway is guaranteed in the "title of both properties", therefore the property line between the two buildings serves no real purpose and should be ignored for this specific application.

Building Official's Position

Sentence 9.10.15.8.(2) is not intended to apply to existing structures. The limiting distance used to calculate the percentage of unprotected openings as referred to in 9.10.15.8.(3) is not the total distance between buildings.

Commission ruling

In favour of the Building Official. It is the decision of this commission in the matter of application #81-6-78, this application does not meet the intent of the Ontario Building Code with respect to Sentences 9.10.15.8.(2) & (3).

Reasons

In such a case, the definition of limiting distance referring to a property line may be utilized or, following Sentences 9.10.5.8.(2) & (3) with respect to the imaginary line concept within the definition of limiting distance, there can be only one position for such a line, and that position affects the use of both the subject property and the adjoining property.

Ontario Ministry of Consumer and Commercial Relations

Building Code Commission

Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

FIREWALL

B.C.C. #81-7-79
24 June 1981

General Description of Project

This is further to B.C.C. #80-12-67. Originally this building was a two storey local public school. Renovation has now changed this into a Senior Citizens' Apartment.

Reason for Application

To meet the requirement of "building area" the architect had previously agreed to divide the existing area with a firewall as in Ontario Building Code, Subsection 3.1.8.

Applicant's position

Using existing stone walls by blocking up various openings and installing fire doors the architect complied with the "Firewall" except for the top which terminated in the attic floor. Since there is no stair access to this attic and only a hatch, this space would be unusable and should not be considered a hazard.

Building Official's position

This building is fully combustible and as the proposed "Firewall" ends at the upper ceiling level of the second floor, it does not comply to the O.B.C. Clause 3.1.8.1.(4) (a) to form a 6" parapet above the roof surface.

Commission ruling

In favour of the Building Official. It is the decision of the Building Code Commission that the application regarding the Old Preston Public School does not meet the present Building Code with respect to Sentence 3.1.8.1.(1).

Reasons

Under Subsection 3.1.8. entitled "Firewalls", Sentence 3.1.8.1.(4) is quite specific, except as provided in Sentences (5), (6) and (7) every firewall shall extend from the ground continuously through all storeys and above the roof surface to form a parapet of not less than:

(a) 6" in height for a firewall required to be a 2 hr. fire separation and

(b) 30" in height for a firewall required to be a 4 hr. fire separation.

Ministry of Consumer and Commercial Relations
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

EXISTING CONSTRUCTION RELEVANT TO PROPOSED ADDITION

B.C.C. #81-8-80
24 June, 1981

General Description of Project

An existing two storey private school approximately 10,000 sq. ft. area built in 1966 of combustible construction (2 x 12 wood joists, 16" centres supported by masonry walls).

Reason for Application

A proposed new third floor and roof assembly which will comply with the Ontario Building Code is approved by the local Building Official except that the existing first floor should be removed and made to comply with O.B.C. 3.2.2.15.(2)(d).

Applicant's position

Although the Code does not address itself specifically to existing portions of the building, it is our intent to provide sufficiency of compliance for the one only floor which is to remain. This floor can be rated to the required 1 hr. fire resistance rating using approved U.L.C. design #L512. In addition throughout the building there will be a standpipe system and P.O.C. detectors connected to the local fire station.

Building Official's position

The O.B.C. does not permit any Group "A" Division "2" building of 3 storeys in building height to be constructed of combustible construction. There is no doubt that this extension to the building and the entire building must comply with the requirements of the O.B.C.

Commission ruling

In favour of the Applicant. It is the decision of the Building Code Commission that the application regarding the determination of the question regarding the Bialik Hebrew Day School, 12-14 Viewmont Road, City of North York in the matter of Sentence 3.2.2.15(2) provides sufficiency of compliance with the Ontario Building Code.

Reasons

The additional life safety measures proposed by the Applicant.

Ministry of Consumer and Commercial Relations
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Government Publications

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

EXIT FACILITY WITH ELECTROMAGNETIC LOCKS

B.C.C. #81-9-81
9 July 1981

General Description of Project

An existing chronic care hospital caring for approximately 300 patients which as a result of the coroner's jury recommendation, decided to use electromagnetic locks on the exit doors into the stairwell.

Reason for Application

Exit doors shall not have locking devices according to Ontario Building Code regulations 3.4.8.15.(13) & (14) but under the Building Code Act the Building Materials Evaluation Commission (B.M.E.C.) has authorized the use of electromagnetic locking systems on exit and access to exit doors.

Applicant's position

The existing manual fire pull stations are located approximately 30" from the hinge side of the exit doors. Most of these doors are only a few inches between the end of the corridor and the latch side of the door. It would seem ridiculous to try to relocate these stations when they are now in full view and in the flow of traffic. It is also proposed not to install the required sign and light as it is felt this would increase the amount of false alarms.

Building Official's position

The terms and conditions as set down by the Building Materials Evaluation Commission in their authorization are basic life safety features, but in this matter the existing location of the fire pull stations would not interfere with that principle, whereas the deletion of the sign and light would create an undue hazard.

Commission ruling

In favour of the Building Official. On Application #81-9-81 that the applicant's proposal for the fire alarm manual pull stations to remain in their present positions has sufficiency of compliance with the intent of the Building Code.

The deletion of the signs and lights would introduce hazard to life safety and is not acceptable.

Reasons

The present locations of the fire alarm manual pull stations are in the flow of traffic and do not introduce any additional hazard to life safety.

Ontario Ministry of Consumer and Commercial Relations

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

LOCATION OF EXITS AND REQUIRED FIRE ALARMS

B.C.C. #81-10-82
9 July 1981

General Description of Project

The proposed new construction of a 4 storey open air parking garage all located above the grade and for the sole use of employees in a nearby office building.

Reason for Application

The location of the exits in the Ontario Building Code Clause 3.4.2.3.(1)(d) and the proposed modified fire standpipe system in lieu of the required fire alarm system.

Applicant's position

The maximum travel distance to at least one of the four exits is 126 ft. The additional benefits of this building are reinforced concrete and the ramps may be used as exits, also parking spaces are assigned in all cases on a continuous basis to these employees only on a monthly lease and as such they would be familiar with the location of all exits.

Building Official's position

The O.B.C. is clear that travel distance is to be 100 ft. and exits spaced around the perimeter shall not exceed 200 ft. Also the modified fire standpipe system which may or may not connect to the water system and in any case be a dry system without cabinets, hoses or nozzles does not in any way resemble a standard standpipe system and does not comply with the required fire alarm system.

Commission ruling

In favour of the Building Official. On Application #81-10-82 the exits show a sufficiency of compliance with the intent of the Ontario Building Code. The fire alarm system shall conform to the requirements of the Ontario Building Code.

Reasons

Recognition is made of the fire proof construction, double-spiral ramp system and the open air concept.

Ministry of Consumer and Commercial Relations
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

OCCUPANT LOAD

B.C.C. #81-11-83
26 August, 1981

General Description of Project

The seventh floor of an existing building having been closed down for many years is proposed to open up in its previous use as an auditorium and restaurant.

Reason for Application

Based on the current Ontario Building Code 3.1.14.(1), 3.4.3.2. and 3.4.3.3., in considering the available units of exits widths only 1,200 persons (20 units x 60 persons/unit) are allowed on the floor.

Applicant's position

The proposed special use of this floor is that the intensive floor loading envisioned by the O.B.C. would not occur, since the square footage of the floor would not be sat to capacity but rather to the degree shown on the proposed seating floorplans and occupant loads (1,491 persons). Further the older stairs have more moderate slopes (lower risers and deeper treads) and can be expected to be five to fifteen percent more efficient for egress than newer, steeper, yet code-complying stairs. An estimated additional ten percent population capacity can be assumed for the older stairs. The crowd egress performance of the seven existing stairs used by 1,573 persons would have a flow of approximately 3 minutes assuming that everyone actually gets to the stairs quickly.

Building Official's position

The square footage constitutes an occupant load of 1,651 persons and the existing units of exit widths only 1,200 persons are allowed on the floor according to the O.B.C.

Commission ruling

In favour of the Applicant. It is the decision of the Building Code Commission that the Applicant's proposal, in the matter of application #81-11-83 demonstrates sufficiency of compliance.

Reasons

(1) By use and experience the occupant load of the existing seventh floor has exceeded the 1,491 proposed.

(2) By use and experience the existing stair systems have proven sufficient for a much larger occupant load.

Ontario Ministry of Consumer and Commercial Relations

Building Code Commission

Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

NONCOMBUSTIBLE CONSTRUCTION

B.C.C. #81-12-84
26 August, 1981

General Description of Project

A newly constructed mixed use commercial and residential apartment tower had planned a physical fitness amenity area on the second floor.

Reason for Application

The proposed raised platform of wood joists in a noncombustible building does not comply with the requirements of the Ontario Building Code Sentence 3.1.4.5.(1).

Applicant's position

Although this is a Group "C" occupancy, the contention is that the method of construction used for subfloor in this area substantially complies with Code requirements 3.1.4.5.(1), in that it is carried on structural supports of noncombustible construction, and is treated with the required ULC S102 fire retardant paint with a flame spread rating not exceeding 25 (O.B.C. Subsection 3.1.10.).

Building Official's position

The raised platform around the sauna and whirlpool hot tub is approximately 2 ft. above the concrete floor, and is constructed of wood joists and plywood supported on concrete block piers and ceramic tile tile floor finish. The combustible elements do not conform to the O.B.C. or City of Toronto Interpretation Bulletin No. 80-11.

Commission ruling

In favour of the Applicant. It is the decision of the Commission on Application #81-12-84, that the applicant's proposals, as listed hereunder, have a sufficiency of compliance with the Ontario Building Code Regulation 925/75.

These proposals are:

(1) Provide fire rated (1 hr.) doors to all areas where raised flooring occurs.
(2) Provide P.O.C. detectors in ceiling of all areas where wood floor occurs and below floor of hot tub room.
(3) Provide one hour protection to underside of raised floor/joists in hot-tub room.

Ministry of Consumer and Commercial Relations
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

SIZE AND OCCUPANCY REQUIREMENTS FOR FIRE SAFETY OF ROOF ASSEMBLIES

B.C.C. #81-13-85
30 September, 1981

General Description of Project

A proposed extension of approximately 30,000 sq.ft.; 1 storey to a similar existing building of 254,000 sq.ft. designated as F3 Occupancy. The building serves as a depot to consolidate and transfer goods from incoming trucks to outgoing railways cars.

Reason for Application

The roof assemblies of the new extension did not conform to the Ontario Building Code, Article 3.2.2.5.1.

Applicant's position

Based on the understanding that the prime objective of the O.B.C. in this regard is to minimize the risk to life that a fire might present, the proposed design of the extension will incorporate features of a higher than normal standard in order to achieve sufficiency of compliance with the Code. An electrically supervised sprinkler system is provided throughout both the new and existing buildings, plus other features.

Building Official's position

The current O.B.C., Article 3.2.2.51. requires roof assemblies to have a 1 hour fire resistance rating. There is no authority given the Building Official to waive this requirement even in the face of the many extra features incorporated in this building.

Commission ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #81-13-85 meets the intent and sufficiency of compliance of the Ontario Building Code Regulations 925/75.

Reasons

1. The proposed New Building incorporates a fire protection System and smoke vent system of higher than required standards as outlined in Exhibit 1B and 1C.

2. The proposed Building is accessible for fire control from four sides, and this understood to mean unobstructed all season access.

Ontario Ministry of Consumer and Commercial Relations

Building Code Commission

Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

FIRE SEPARATION OF A REQUIRED EXIT STAIR

B.C.C. #81-14-86
30 September, 1981

General Description of Project

An existing three storey house was being renovated to allow the owner to operate an interior design business from one room on the ground floor while at the same time residing within the remainder of the building.

Reason for Application.

Ontario Building Code Article 9.10.8.10., 9.10.9.7., 9.10.9.16 pertain to fire separation of exit stairs, and the proposed renovation does not conform.

Applicant's position

Since the Owner of the business uses only the one front room of the first floor as a studio to conduct a very low traffic business, the fire separation is excessive and would spoil the aesthetics of the studio the Owner has created. The remaining area is used only by the Owner as his personal residence.

Building Official's position

The open stair from the first floor to both upper levels is the only means of exit from those levels and is required to be separated from the business operated on the first floor.

Commission ruling

In favour of the Building Official. It is the decision of the Building Code Commission that application #81-14-86 does not conform with the O.B.C. Regulation 925/75 Article 9.10.8.10. and that the Fire Separation as approved by the City of Toronto Building Permit and indicated on the Working Drawings Exhibit #4 of the Application shall be maintained as a permanent installation.

Ontario Ministry of Consumer and Commercial Relations

Building Code Commission

Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

FASTENINGS ON EXIT DOOR

B.C.C. #81-15-87
13 November, 1981

General Description of Project

A recently completed six storey office building which has a main lobby at grade level with code conforming exits.

Reason for Application

Sentence 3.4.8.15.(13) of the Ontario Building Code addresses fastenings on exit door and the Building Official stated that the lobby door does not comply.

Applicant's Position

That the lobby door has a thumb turn located in the bottom rail which is normal location for glass doors, also it is "readily opened" as required by the Ontario Building Code.

Building Official's Position

The Ontario Building Code uses the term "readily opened" to describe the manner locks or latches must operate for exit and access to exit doors. Thumb turn locks on glass doors must also be waist high and not in the bottom rail of such doors so that they are readily opened to comply with the intent of the Code.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission on Application #81-15-87 that the applicant's installation meets with the requirements of the Ontario Building Code.

Ontario
Ministry of
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Building Code Commission

Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

FIRE SEPARATION AND
RACKING SYSTEM

B.C.C. #81-16-88
19 November, 1981

General Description of Project

A newly constructed one storey building consisting of a mixed retail and storage occupancy all of one tenant.

Reason for Application

Sentence 3.1.3.3.(1) and Clauses 3.2.2.33.(2) and (d) should apply to the matter of whether a fire rated separation is required between the retail and storage areas, also to the assembly constructed by a two level racking system in the storage area whether it should be required to be a fire separation.

Applicant's position

The Code defines a major occupancy "to include the subsidiary occupancies which are an integral part of the principal occupancy." The storage area is an integral part of the retail, therefore no fire separation is required between retail and storage.

With regards to the two level racking system located in the storage area it is not integrated with the walls of the building, and is considered as only content of the building as it is structurally independent. The second level is an unrated floor assembly of steel decking and 5/8" tongue/grove plywood and integral part of the main floor racking system designed to support a live load of 125 p.s.f. Life safety is enhanced by a fully automatic sprinkler system on all levels and close spaced within the racking system as well as heat baffles at all openings. Early warning smoke detectors are installed throughout the building and close spaced at all openings. Mechanical smoke venting and short travel distance to exits are also featured.

Building Official's position

The proposed fire protection and the two level racking system are alternatives not covered by the Code, therefore the fire separation requirements of the Code must be made to comply.

Commission ruling

In favour of the Applicant. In the matter of Application #81-16-88 by Canadian Tire concerning its Kirkland Lake building, given that the provisions of exhibit No.5 apply fully and that the subject storage facility is accessible for employee usage only, it is the decision of the Ontario Building Code Commission that the application demonstrates sufficiency of compliance with the intent of the Building Code, Ontario Regulation 925/75.

Reasons

Taken together, such storage structure with the particular provisions of fire detection and suppression are deemed to offer life safety commensurate with the intent of the Code.

Recommendation:

Ontario Ministry of Consumer and Commercial Relations

Building Code Commission

Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

FIRE ALARM DETECTION AND HALON SPRINKLERS

B.C.C. #81-17-89
13 November, 1981

General Description of Project
An existing five storey office building proposed renovations to the basement and first floor for office purposes.

Reason for Application
The issuance of an Examiners Notice to comply with the Ontario Building Code Sentences 3.2.4.1.(1), 3.2.2.8.(3) and 6.7.3.2.(1).

Applicant's position
The lack of definitive statement to qualify "material alteration" and subsequent imposure of the Building Code for renovation work. New heat detectors have been installed in each mechanical room on all floors of the building. It is further proposed to install in the basement new heat detectors. The computer room which is located in the basement will have P.O.C. and heat detectors and a fully automatic Halon suppression system. All detectors in the whole building are sounded locally and connected to a fire alarm annunciator remotely in the building security office (manned 24 hrs/day, 7 days/week) and also interconnected to the off-site Honeywell BOSS Control Centre.

Building Official's position
The Code requires automatic sprinklers to conform to N.F.P.A.-13, Halon systems are not included in that standard. The proposed other fire protection does not conform to the O.B.C.

Commission ruling
In favour of the Building Official. It is the decision of the Building Code Commission in the application #81-17-89 that:

(a) A Fire Alarm System is required for the floors involved in material alteration.

(b) Stand pipes are required to meet the provisions of the Ontario Building Code.

(c) Sprinklers are required in the basement in all areas excluding the computer facilities.

(d) There is sufficiency of compliance with the intent of the Ontario Building Code by use of the Halon System in the computer facilities room.

REASONS

It is the decision of the Building Code Commission that the alterations to the first floor and basement constitute Material Alterations to the Building.

This Halon System is a U.L.C. certified system.

Ontario
Ministry of
Consumer and
Commercial
Relations

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

FIRE SEPARATION
FOR EXITS

B.C.C.#81-18-90
16 December 1981

General Description of Project

A woodworking plant recently constructed contained a two storey office area which discharged the required exits through the factory area.

Reason for Application

Sentence 3.4.5.1.(1) requires the exits to be enclosed but the owner left them opened as a viewing area for his clients although the permit drawings showed enclosures.

Applicant's position

The office is separated from the plant by 8" concrete block wall, floor to underside of roof deck, all connecting doors are 1½ hr. fire rated. The building is completely sprinklered and has fire alarm interconnected to local fire department, also P/A system may be used as verbal alarm. Other fire safety programs are in continuous practice, and due to the nature of this business it would be advantageous to have an open viewing area for clients.

Building Official's position

The second floor area, as it stands now, does not have proper and required exits; therefore, the two (2) open stairs from second floor discharging through the woodworking shop at rear, must be enclosed by minimum 3/4 hr. fire-resistance rated fire separation.

Commission ruling

It is the decision of the Building Code Commission that application #81-18-90 in the matter of 81 Bentley Street, Markham, Ontario does not meet the requirements of the Ontario Building Code with reference to Sentence 3.4.5.1.(1)

Reasons

Subsection 3.4.5. is quite specific in the matter of the required separations for exits. The applicant's proposal does not afford the same degree of protection for the occupants as required by the Code.

Ontario Ministry of Consumer and Commercial Relations

Building Code Commission

Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

FIRE RESISTANCE RATING OF ROOF AND RACKING SYSTEM

B.C.C. #81-19-91
16 December 1981

General Description of Project

This new one storey warehouse is to consist of an office with area of 6,249 sq.ft. and adjacent warehouse of 117,738 sq.ft. A phase 2 will add 100,000 sq.ft. to the warehouse for a total of 224,000 sq. ft. with 1 hour fire separation between office and warehouse.

Reason for Application

As a Group F Division 2 and facing 2 streets the requirements of O.B.C. 3.2.2.44. are applicable, namely the provision of a 1 hour fire resistance rating for the roof and supporting columns which the Applicant wants to delete.

Applicant's position

The proposed fire protection is in excess of that required by the O.B.C. in the form of sprinklers within the racking system and at the ceiling. (In accordance with NFPA 231C-1980 and N.F.P.A. 13-1973). The N.B.C. 1980 has waived the 1 hour fire resistance for the roof assembly when a sprinkler system is installed only beneath the roof. The extra in rack sprinkler will be installed to the N.F.P.A. 231C-1980, also extra will be the installation of hose stations and emergency lighting.

Building Official's position

This proposed warehouse is not in compliance with the requirements of the O.B.C. and the Building Official has no jurisdiction to allow equivalence.

Commission Ruling

It is the decision of the Building Code Commission that application #81-19-91 in the matter regarding Kinney Shoes, Summerlea Road, Brampton, Ontario indicates a sufficiency of compliance with the Ontario Building Code.

Reasons

(1) Sprinkler system will be installed throughout.
(2) In rack sprinkler protection will be installed.
(3) Hose rack system will be installed.
(4) Sprinkler system will be electrically supervised and flow switches or pressure switches will be used to transmit an alarm directly to the Brampton Fire Department.
(5) Allocation of designated racks will permit Fire Department movement in a direction perpendicular to the racking system.
(6) Emergency lighting to be provided throughout the warehouse.

CANCELLATION OF APPLICATION

B.M.E.C. #82-1-39
14 April 1983

IN THE MATTER OF Section 18 (4)(b) of the Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF Application by:

National Slag Limited
139 Windermere Road
Hamilton, Ontario
L8N 3Y2

ON THE SUBJECT OF:

Replacement of expanded shale lightweight aggregate with expanded slag in the composite floor system represented by U.L.C. Design F903

SHALL BE CANCELLED AS FOLLOWS:

The subcommittee has investigated the matter and the Commission has requested additional information and tests in their letter of 20 May 1982. No additional information has been received by the Commission to-date, therefore we cannot proceed with any further investigation.

REASONS:

Policy/procedure of the Commission is to terminate applications that have been in a "HOLD" position, such as waiting on additional information from an Applicant for a period of six months. Also a covering letter attached herewith has been sent to the applicant by registered mail.

MOVED AND ADOPTED THIS 14 DAY OF APRIL, 1983 BY THE BUILDING MATERIALS EVALUATION COMMISSION.

Ontario Ministry of Consumer and Commercial Relations

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

COMBUSTIBLE LABORATORY SERVICE PIPING

B.C.C. #82-1-92
1 April, 1982

General Description of Project

The proposed new addition of a three storey laboratory would incorporate several special design features to best utilize space for chemical research, computer and electronic designing.

Reason for Application

Combustible laboratory service piping does not comply with Ontario Building Code, Sentence 3.1.4.5.(5) or 3.1.7.7.(2).

Applicant's Position

The building is of poured concrete construction and separated between laboratory and administration areas. At no time does a plastic service pipe pass through any floor or wall. Extra sprinkler and automatic fire detection will be installed. Further, to assure satisfactory performance under all predictable operating and emergency conditions only a minimum of plastic service piping is used "in the bench". Fibreglass reinforced plastic jackets used to insulate some piping is also coated with fire retardant paint systems. Life safety is a prime concern and consideration to experiments which may take up to five years to conclude.

Building Official's Position

Proposed use of P.V.C., Poly-propylene and Poly-butylene for lab drains, vacuum lines, de-ionized water and instrument gas "in the bench" and at the ceiling does not conform to O.B.C.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application 82-1-92 in the matter regarding the Xerox laboratory at 2630 Speakman Drive in Mississauga indicates a sufficiency of compliance with the Ontario Building Code provided that:

1) The combustible risers are installed into a fire rated vertical shaft and penetrate horizontally only into the laboratory sections and into the mechanical rooms.

2) A fire separation with not less than one hour rating is maintained between the actual laboratory and the administration parts of all floors, without penetration of any combustible pipes.

3) The fire sprinkler system is extended into the vertical pipe shaft.

Reasons

The designated laboratory section of the building is specially designed and will be fire separated from the administration areas of the building and have a fire sprinkler system, which exceeds the requirements of the Ontario Building Code.

Ontario
Ministry of Consumer and Commercial Relations

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

ENCLOSURE OF MALL MEZZANINE

B.C.C.#82-2-93
28 April 1982

General Description of Project

An existing covered mall in part is a two storey building which has one of the exits to an open mezzanine with a set of stairs leading directly into the ground floor level of the mall.

Reason for Application

Proposal to enclose the so-called mezzanine which bridges the full width of the mall was in the opinion of the Building Official contrary to O.B.C. Article 3.2.3.13.

Applicant's position

This mezzanine, in a practical sense, forms an integral part of the second floor area. Its enclosure will not in any way interfere with pedestrain thoroughfare within the mall nor will it constitute a hazard of any kind. The end use will be a reception area for the second floor offices.

Building Official's position

Enclosure of the mezzanine will not comply in that the extension of the second storey occupancy into the covered mall will destroy the spacial separation required between the buildings of the mall.

Commission ruling

In favour of the Applicant. It is the decision of the Ontario Building Code Commission that the proposed application 82-2-93 conforms with the intent of a demonstrates sufficiency of compliance with the Ontario Buidling Code Act, Regulation 925/75. Providing that:

(a) All proposed new construction shall be according to the layout as shown on Exhibit #8 (Sketch working Drawings).

(b) That the proposed new mezzanine walls and all stair enclosures shall all have a fire rating of 2 hours.

Reasons

(i) That the construction proposed does not represent an increase to the life Hazard to the current Mall layout.

(ii) The linkage between the second floor presently exists in an open form and the proposed new layout increases the existing office space by only 900 sq. ft.

HEATING SYSTEM
DESIGN

B.C.C. #82-2-112
21 April 1983

General Description of Project

Design and installation of heating systems and windows in residential construction.

Reason for Application

The issuance of a letter by the Building Official to all Heating Contractors, requiring a heat transfer multiplyer for all windows higher than indicated in the H.R.A.I. manual. Also contained in the letter was a requirement to circulate heated air through floors over a garage or similar unheated area.

Applicant's Position

Since the Building Code is the statutory regulation governing building construction, a Building Official has no jurisdiction to impose higher requirements on the contractor. After numerous meetings with the Building Official it was found that the problem was the windows and their installation because they were leaking air and were poorly fitted. This extra air infiltration also caused floors over unheated areas to be cooler, and this led to the request by the Building Official for heating these floors. This is not a requirement of the Code. The imposition of these extra requirements meant that the furnaces were about 40% larger than actually required had the windows complied with the Building Code.

Building Official's Position

It is believed that the Applicant is questioning a Departmental policy with respect to window certification. There is no dispute on the H.R.A.I. Digest as a reference manual. Acceptance would be based on a lower heat transfer multiplier for any window which is certified. The suggestion that a duct be introduced into a suitably prepared drop ceiling to eliminate cold floors over garages or other unheated areas follows a recommendation in the H.R.A.I. manual.

Page 2 ...

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that this Application regarding Subsection 6.2.3. and Article 9.34.2.1., must comply with the requirements of the Building Code.

Supplying or circulating air in the ceiling space over unheated areas is not a requirement of the Ontario Building Code.

Reasons

(1) The above requirements are explicit and precise in the O.B.C.

(2) The building permit applicant may be requested to supply to the permit granting authority all pertinent data regarding window performance.

(3) The minimum requirements are specified in the Ontario Building Code and only these can be enforced by the permit granting authority.

Ontario
Ministry of Consumer and Commercial Relations

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

SEPARATION FOR EXITS

B.C.C. #82-3-94
28 April, 1982

General Description of Project

This existing three storey brick and timber building has been a restaurant since the year 1912, although the top floor was used only for office administration.

Reason for Application

Ontario Building Code Sentence 3.4.5.1.(1) is in contention because the building owner installed a new exit stair from the third floor through the second and first floor to the street level all without a fire separation.

Applicant's position

Since only half of the third floor is used for administration, it was decided to expand the dining room to utilize the remaining area, hence the new staircase was installed. Any enclosure would take away from the grandeur of this solid oak stair and the elegance of the surrounding dining lounge.

Building Official's position

Having proceeded without a permit the building owner does not wish to install an enclosure around the stair or install a sprinkler system nor a full fire alarm system. The basic intent of the O.B.C. to project life safety has been neglected in all of these required articles of the Code.

Commission ruling

In favour of the Building Official. It is the decision of the Ontario Code Commission, that the proposed application #82-3-94 in the matter of 434 Richmond Street, London, Ontario does not meet the requirements of the Ontario Building Code Act Regulation 925/75.

Reasons

To safeguard life safety in a public use building such as a restaurant,any construction must meet all the pertinent requirements of the Ontario Building Code listed and described in exhibit #3a and 3b.

Ontario Ministry of Consumer and Commercial Relations

Building Code Commission
Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

COVERED WALKWAY
CONSTRUCTION

B.C.C. #82-4-95
26 May, 1982

General Description of Project

A new building proposed a covered walkway over a street to connect with the original building not as a required exit but for internal circulation between existing and new office space.

Reason For Application

Sentence 3.1.11.1.(1) as cited by the Building Official should pertain to the glazing system but the Applicant maintains that 3.2.3.15. shows the intent of walkways.

Applicant's position

Definitions in the O.B.C. describe this structure as a covered walkway therefore 3.1.11.1.(1) which is for interior finish material forming part of walls or ceiling does not apply. Furthermore, compliance has been met pertaining to 3.2.3.15. in that the structural steel truss with poured concrete floor is non-combustible and each building is separated by a 3/4 hr. fire separation, also the glazed cladding (Lexan Sheet U.L.C. 102.2-1978 flame spread 45-55) which make up the exterior walls and roof exceeds the flame spread ratings required in Article 3.3.5.3. for "Group D" buildings and meets the intent of 3.1.4.5. An extra degree of life/fire safety is attained with the use of an electrically operated fire alarm and sprinkler systems.

Building Official's position

The glazing system of the enclosed walkway falls partly under the jurisdiction of 3.1.11.1.(1). These materials include that part of the interior surface of a wall, not the entire wall assembly.

Commission ruling

In favour of the Applicant. It is the decision of the Building Code Commission Re: application #82-4-95 that the subject covered walkway in its intended location and use shows sufficiency of compliance with the intent of the Ontario Building Code Regulation 925/75.

Reasons

The life safety aspects of the walkway structure combined with its cladding appears satisfactory - especially so given the presence of the sprinkler system.

Ministry of
Consumer and
Commercial
Ontario Relations

Building Code Commission

Building Materials Evaluation Commission

Rulings

information on decisions and authorizations may be obtained by writing to the Commission Secretary, 3300 Bloor St. W., Toronto M8X 2X4

PROTECTION OF OPENINGS
BETWEEN STOREYS

B.C.C. #82-5-96
26 May, 1982

General Description of Project

A twenty-two year shopping centre that is one storey in height is to undergo planned phased renovations.

Reason for Application

Sentence 3.1.7.4.(4) of the Building Code addresses the open connection between the first storey and the next storey below subject to certain conditions.

Applicant's position

The first phase of renovations includes the expansion of the interconnection between main floor and basement in one corner of the mall through the enlargement of the existing opening incorporating an escalator. The Code requirements governing this interconnection will be provided in all the areas undergoing renovations. The remainder of the building, which consists of leased retail stores will be sprinklered on phased basis as the individual tenant leases expire or when renovations are being undertaken.

Building Official's position

This building was built prior to 1960 before there were any provisions for enclosed malls in Building Codes, therefore, when major renovations are undertaken and the provisions of the Code respecting malls are utilized then the entire building should comply with to-days standards and should be sprinklered.

Commission ruling

In favour of the Applicant. Concerning application No. 82-5-96 it is the decision of the Building Code Commission that the planned renovation work in the North East Corner of the building shows sufficiency of compliance with the Ontario Building Code.

Reasons

The Ontario Building Code does not address itself to the remainder of the building in that no changes or added hazards thereto are suggested in the application.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

SURFACE BONDED DRY STACKED BLOCK WALLS

B.M.E.C. #82-6-44
14 October 1982

IN THE MATTER OF Section 18(4)(b) of The Building Code Act, R.S.O. 1980

AND IN THE MATTER OF an application by: Sparfil International Inc., 5 Veronica Street, P.O. Box 235. Cobourg, Ontario K9A 4K5 on the subject of: Sparfil Wall System, a building block manufactured from Polystyrene beads, combined with Portland Cement and fine sand which with surface bonding mortar applied to the surface of all exposed faces of the dry stacked "Sparfil Bloc" in lieu of conventional mortar.

THE COMMISSIONER HEREBY AUTHORIZES the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant and/or his agent at the above address, withdraw this authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.
2. This authorization is not to be used as an endorsement of any product or system for promotional or advertising purposes.
3. This authorization does not in any manner warrant or guarantee the successful performance of the subject matter.
4. This authorization is for the Applicant only at the above address and is not transferable, any revision or change in the materials, use, or manufacture of the product shall automatically be cause for termination, unless prior approval is granted for revision or change.
5. This authorization is valid only when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation.

AND SPECIFIC REQUIREMENTS

6. This authorization is limited to use in Part 9 buildings as defined in the Ontario Building Code.
7. An architect or engineer shall be responsible for the design and details and all construction documents shall be duly sealed.
8. Design and details shall be such that the following loads and stresses, as recommended by the manufacturer, are not exceeded:

AXIAL COMPRESSION
Based on gross area

	MPa	psi
Nominal design stress in Compression on 200,250 or 300 mm Sparfil wall, with 3mm Surewall skins.	0.2	30

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

ECCENTRIC COMPRESSION

Compressive load capacity with eccentricity = t/4	kN/m	k/ft
200 mm Sparfil wall	30	2.17
250 mm Sparfil wall	35	2.70
300 mm Sparfil wall	40	3.07

BENDING STRESSES

Nominal design stress in tension, acting on skin only.	MPa	psi
	0.86	125

Moment capacity	kN.m/m	lb.ft/ft
200 mm Sparfil wall with 3mm skins	0.52	125
250 mm Sparfil wall with 3mm skins	0.65	155
300 mm Sparfil wall with 3mm skins	0.83	190

9. TECH SHEETS 1,2,3 and 4, dated 7 June, 1982, as attached shall be the only technical sheets included in this authorization. The WARRANTY disclaimer shall be eliminated from these TECH SHEETS as a condition of the authorization.

10. Site control procedures; for protection and installation the manufacturers TECH SHEETS 1,2,3 and 4, dated 7 June, 1982, shall be carefully followed.

11. Inspection of masonry construction shall be carried out to ensure that construction is consistent with design, details and specification and in compliance with the manufacturers TECH SHEETS 1,2,3 and 4, dated 7 June, 1982. Such inspection shall be carried out by the architect or engineer responsible for its design or by another person qualified in the inspection of masonry construction and who is responsible to the design architect or engineer.

12. Based on an average of five tests Sparfil Blocs shall have a nominal density of 1070 kg/m^3(67 p.c.f.) and shall have the following minimum unit compressive strength based on gross area...

Normal Block Size.	Mpa	psi
200 mm x 200 mm x 400 mm (8" x 8" x 16")	2.2	320
250 mm x 200 mm x 400 mm (10"x 8" x 16")	1.8	260
300 mm x 200 mm x 400 mm (12"x 8" x 16")	1.6	230

13. Surewall bonding mortar shall meet the Standard Specification ASTM C887-79.

14. Bonding Adhesive shall be as supplied by Sparfil under the brand name Sparfil Bonding Adhesive.

15. Cavity wall construction using Sparfil Wall System is not permitted.

16. Except as authorized above all applicable requirements of the Ontario Building Code shall be met.

17. A copy of this authorization shall be attached with any application for a building permit.

18. Subject to paragraph 1 this authorization shall be limited to the Part 9 buildings for which a permit is applied prior to 31 December, 1985.

TECH SHEET 1

JUNE 7, 1982

SPARFIL®

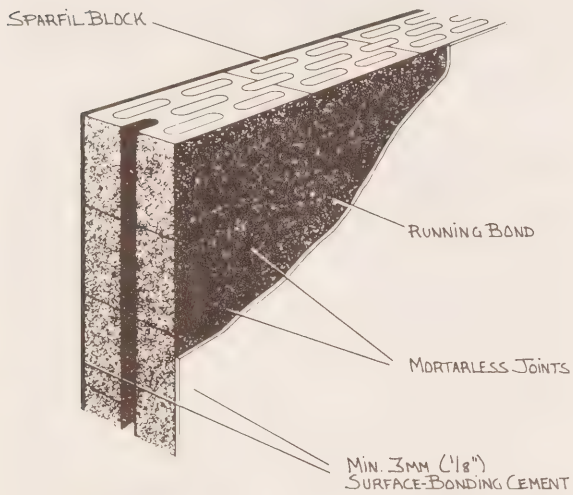
Sparfil International Inc., 5 Veronica St., Box 235,
Cobourg, Ontario, Canada K9A 4K5 (416)372-8550

GENERAL

Description

The Sparfil wall system is a total wall system comprised of fully insulated Sparfil blocks and surface bonding cement.

The system consists of laying the first course of Sparfil blocks in a bed of mortar, dry stacking the remaining courses of Sparfil blocks (i.e. without mortar between the Sparfil blocks), lightly misting the dry stacked Sparfil block wall and then applying a minimum 3 mm (1/8") coating of surface bonding cement on each side of the wall.



Not to Scale

Typical Sparfil Wall

Sparfil Blocks

Sparfil blocks are continuously insulated cellular concrete blocks that can provide R values in excess of R30. They are made from Sparfil, a lightweight, fire resistant, insulating concrete that is a homogeneous mixture of expanded polystyrene beads, Portland cement, fine sand and chemical additives. The expanded polystyrene beads constitute about 60% by volume of the finished Sparfil. Their spherical, closed cell structure develops Sparfil's unique combination of properties.

Sparfil blocks utilize an offset void design to optimize their thermal insulation, lightweight, sound insulation and strength.They are available with their voids pre-filled with polyurethane inserts to achieve maximum thermal insulation values. Sparfil blocks are available in full modular size and are pre-ground for ease and accuracy of dry stacking.

Surface Bonding Cement

Surface bonding cement is a *structural* material that is used to build block walls without mortar in the joints beyond the first course. It is a mixture of Portland cement, sand, glass fibres and chemical additives that is applied to both sides of dry stacked block walls. It dries to a hard durable finish that may be troweled smooth or textured. The glass fibres act as reinforcement throughout the surface bonding cement thus creating a uniformly strengthened material that *structurally* bonds dry stacked blocks when applied to each side of the wall in the required thickness.

Nonstructural Finish Coat

Nonstructural finish coat is a non fibre mixture of Portland cement, fine sand and chemical additives that is used optionally to finish walls inside and out in a variety of attractive surface textures.

Bonding Adhesive

Bonding adhesive is a polymer based liquid adhesive that is added to the nonstructural finish coat or second coat of surface bonding cement to ensure their bond to the initial coat of surface bonding cement.

Shelf Life

Sparfil blocks have an indefinite shelf life when stored on skids in their original plastic wrapping.

Surface bonding cement and nonstructural finish coat have a one year shelf life from the date stamped on the bag when stored unopened on pallets in a dry area protected from moisture.

Bonding adhesive has a one year shelf life when stored in its original container and kept from freezing.

Field Storage

Sparfil blocks, surface bonding cement and nonstructural finish coat should be stored in their plastic wrapping on skids and protected from rain and snow until used. Saturated Sparfil blocks should be allowed to dry before applying surface bonding cement. Do not allow bonding adhesive to freeze. Any frozen or previously frozen bonding adhesive must be discarded.

Building Codes

Structures built with the Sparfil Wall System should be designed, engineered and built in conformance with the applicable building code and structural data. The technical data and details in this Tech Sheet are given for informational purposes only and are not to be construed as overriding any requirements of any applicable building code.

TECH SHEET 2

JUNE 7, 1982

SPARFIL®

Sparfil International Inc., 5 Veronica St., Box 235,
Cobourg, Ontario, Canada K9A 4K5 (416)372-8550

STACKING SPARFIL BLOCKS

Preparation

The foundation or footings should be solid and level and adequately reinforced to carry the design loads.

First Course

Lay the first course of Sparfil blocks plumb and level in a 6 – 12 mm (1/4 - 1/2") bed of mortar. Do not mortar the head joints; rather butt the Sparfil blocks together. If cores are to be grouted, no mortar should be placed in the core areas.

NOTE: It is extremely important that this first course be laid plumb and level since the ease and accuracy of dry stacking the remaining courses depends greatly on the accuracy of this first course.

Remaining Courses

Dry stack (i.e., without mortar) the remaining courses of Sparfil blocks in a running bond pattern beginning at the corners, leaving openings for doors and windows. Butt the Sparfil blocks tightly together. Allow a minimum 150 mm (6") overlap in the running bond pattern. If services are to be run through the cores, care should be taken during stacking to ensure the cores are aligned vertically. Polyurethene inserts should be removed during stacking from cores that are to receive services. Use a mason's line drawn from corner to corner on each course to ensure the wall stacks plumb. Check the wall every course to be certain it is plumb and level, using mortar, plastic shims or galvanized metal shims as required to adjust plumb and level (do not use sand or wood shims). Any adjustment for length should be done at least one full block from corners or openings. Sparfil blocks are pre-ground to facilitate dry stacking and minimize the need for shimming.

Polyurethane inserts are available optionally to key together the half voids at the ends of adjoining Sparfil blocks. Care taken in keeping walls plumb and straight will increase surface bonding cement coverage and improve the walls' final appearance. Always align and plumb walls to the side which requires the straightest and smoothest finish (e.g., the inside of raquetball courts.)

Protection Against Rain & Snow

During erection and until the tops of the walls are permanently sealed, protect the top course of Sparfil blocks from rain and snow with a plastic sheeting or suitable covering.

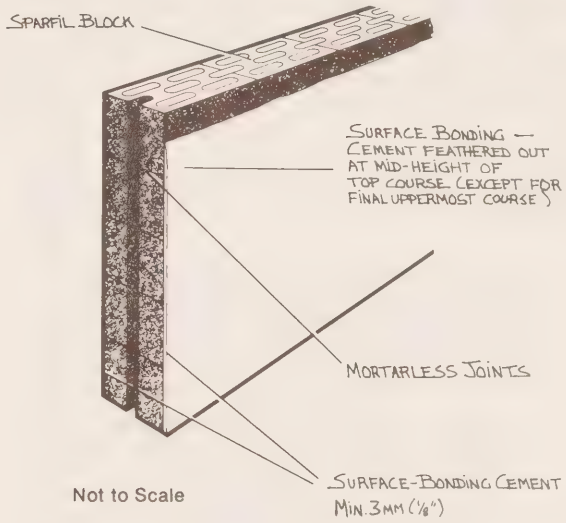
Cutting

Sparfil blocks are easily cut with a circular saw using a carborundum blade. They can also be cut with special large toothed, hardened steel hand saws available from the manufacturer.

After they have been surface bonded Sparfil walls are easily cut with a circular saw using a carborundum blade.

Bracing

Walls dry stacked beyond 12 courses should be braced. Alternatively, the first coat of surface bonding cement may be applied every 8 – 12 courses to each side of the dry stacked Sparfil wall, thereby providing temporary bracing. It is important that this first coat of surface bonding cement be applied to both sides of the Sparfil wall the same day. The first coat of surface bonding cement on each lift should be feathered out at the *midheight of the last course of Sparfil block* to allow for the even application of the first coat of surface bonding cement on the next left. The uppermost application of surface bonding cement should continue to the top of the wall.



Initial Coat of Surface Bonding Cement

Building Codes

Structures built with the Sparfil Wall System should be designed, engineered and built in conformance with the applicable building code and structural data. The technical data and details in this Tech Sheet are given for informational purposes only and are not to be construed as overriding any requirements of any applicable building code.

TECH SHEET 3

JUNE 7, 1982

SPARFIL®

Sparfil International Inc., 5 Veronica St., Box 235,
Cobourg, Ontario, Canada K9A 4K5 (416)372-8550

SURFACE BONDING AND FINISHING

General

Fibreglass reinforced surface bonding cement may be used as the final exposed finish inside and out or, for greater finishing flexibility, it may be covered optionally with a nonstructural finish coat. If the surface bonding cement is used as an exposed finish and left unpainted it is recommended to apply two thin coats: the second coat should be applied to a whole wall section at a time to avoid cold joints (see Cold Joints). If a slight discolouration of a cold joint is acceptable the surface bonding cement may be applied in one full coat.

Minimum Thicknesses

The surface bonding cement bonds the Sparfil blocks together; providing the finished wall with its structural integrity. It is important that the surface bonding cement be applied to a *minimum* 3 mm (1/8") thickness or greater as required for specific applications detailed in other Tech Sheets or as required by the project engineer.

Preparation

Sparfil block should be dry, clean and free of soil, clay or sand. Other surfaces to receive surface bonding cement must be free of soil, clay, sand, oil, paint, efflorescence or foreign materials that will interfer with proper bonding.

Mixing

Mix surface bonding cement and nonstructural finish coat according to the directions on their bag. Use only clean tools, clean buckets, clean mixing equipment and water free of deleterious amounts of acids, alkalies and organic material. If the dry mixture is lumpy, discard it. Mix only what can be applied within one hour. In hot and dry weather mix less material. A 23 kg (50 lb) bag uses approximately 6 litres (1½ gallons) of water.

All coats other than the first coat of surface bonding cement must be fortified with bonding adhesive by adding the bonding adhesive to the mix water in a ratio of 1 adhesive to 9 water. *Do not* contaminate or modify the surface bonding cement with anti-freeze, sand, dirt or any other materials.

Add water into a clean mixing unit. Add bonding adhesive if required. Then slowly add all the dry material. Thoroughly mix. Mixture must be wet and free of lumps. For large jobs use a mechanical mixer. High speed mixers require only 1 or 2 minutes. Keep mixing time to a minimum as over mixing may cause fibre damage. Wash out mixer periodically to keep it from caking. Clean all tools regularly after use.

The mixture should be a creamy, easy-to-trowel consistency. It should not be soupy. Discard mixes having lumps. If an early set takes place, retemper the mix with water but only if it has been mixed for less than 20 minutes. If mixed for a longer period, or if it becomes stiff and difficult to apply, discard it.

Application

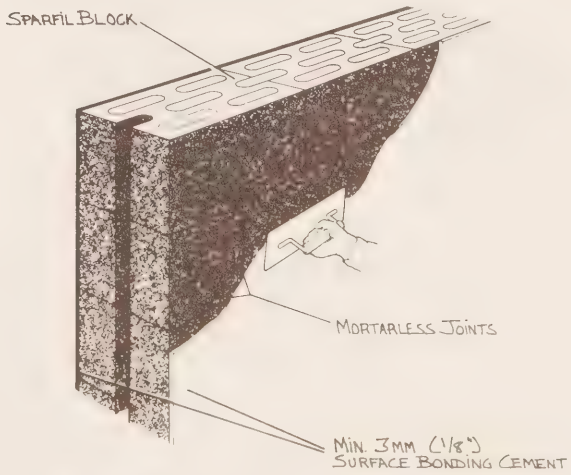
Lightly dampen the surface of the Sparfil wall, if it is dry, before applying the surface bonding cement. This aids in spreading the material and in securing a good bond. Avoid saturating the Sparfil blocks as this may cause discolouration and/or shadow crazing of the coating. If during application the wall dries out, redampen it. Do not dampen the wall prior to applying additional coats of surface bonding cement or nonstructural finish coat.

Spread the mix into open joints and completely cover the Sparfil blocks at a minimum, uniform surface thickness of 3 mm (1/8") or as required (see Minimum Thicknesses). Gauge the thickness while applying to be certain that the minimum thickness has been obtained. Only one coat of surface bonding cement is required. However, to avoid cold joints when the surface bonding cement is used as the final finish two thin coats to the required minimum thickness may be preferred (see Cold Joints). The first coat of surface bonding cement must always be applied to both sides of the wall the same day.

Surface bonding cement and nonstructural finish coat may be spray or trowel applied. For troweling use a finishing or plastering trowel and a plaster hawk.

If the first coat of surface bonding cement is sprayed it must always be troweled down in order to ensure proper fibre alignment and a positive mechanical bond. Troweling may begin 5 – 10 minutes after it is on the wall. For cosmetic spray applications troweling is not necessary.

Work in progress should stop at natural stopping points such as doors, control joints, windows, corners and pilasters. When necessary to apply the material in lifts, *stop at the mid-height of the last course of Sparfil block* so that the next stage will lap the horizontal block joints (see Cold Joints). When work is stopped overnight or longer, protect the tops of walls against rain and snow.



Not to Scale

Applying Surface Bonding Cement

Two Coat Application

Two Coat applications of surface bonding cement (or one coat of surface bonding cement covered by one coat of nonstructural finish coat) substantially improve colour and texture uniformity of the finished wall. The first coat should be applied with a uniform surface texture free of ridges but it should not be polished smooth as this will decrease the bond of the second coat. The second coat should be applied to a whole wall section at once to avoid cold joints.

NOTE: **Do not** *get the wall dirty between applications as this will affect the bond of the second coat.*

Cold Joints

When the surface of a wall cannot be covered in one continuous application, the point at which two separate applications join or overlap can usually be seen. This joining is called a cold joint and may not be aesthetically acceptable. The joining of two separate horizontal applications of the material must always occur at least 75 mm (3") from the horizontal edge of the block. This ensures that the structural integrity of the surface bonded Sparfil wall is maintained.

The easiest way to prevent cold joints is for the work to continue until a natural stopping point is reached. Natural stopping points occur at wall corners, wall tops, wall intersections, pilasters and expansion joints. No visual or structural problems will result. Surface bonding cement is formulated such that under normal conditions a short work stoppage (15–20 minutes) will not produce a cold joint.

The use of a textured finish will eliminate the visual effect of cold joints, since this finish naturally disguises the cold joint. Techniques using blending, taping, special finishing and panelization can effectively prevent noticeable cold joints.

Exposed Sparfil Block

All exposed surfaces of Sparfil block shall be covered with a minimum 3 mm (1/8") of surface bonding cement.

Curing

Under severe windy and/or dry, hot conditions it may be necessary to wet the wall once or twice a day for a time sufficient to hydrate the cement. In warm weather, protect the surface from rain for 3 hours; in cold weather, protect for 6 hours. The wall must be protected from freezing for 48 hours after application. (See Cold Weather Construction). Basement walls should cure a minimum of 5 days before back-filling.

Initial Heat

It is important to prevent accelerated or forced drying of interior surface bonding finishes of Sparfil buildings closed-in after cold fall weather has commenced. Therefore, when supplementary heat is initially applied in closed-in Sparfil buildings, the inside temperature shall not be raised more than 5°C (9°F) per 24 hours to avoid excessive shrinkage and possible surface crazing. The Sparfil Wall System's energy efficiency and its 3 day thermal lag assure that such temperature control can be easily achieved.

Yield

.015 cubic metres per 23 kg (.52 cubic feet per 50 lbs) of surface bonding cement or nonstructural finish coat.

Coverage

Allowing for 5% wasteage and inaccuracy, a 23 kg (50 lb.) bag of surface bonding cement or nonstructural finish coat covers nominally at 3 mm (1/8") thickness on *both sides* of the Sparfil wall:

— 25 Sparfil blocks when trowel applied

or

—22 Sparfil blocks when spray applied

depending upon the finish desired and the workmanship in application.

Decorative Finish — When used as a decorative finish over existing block and mortar, a 23 kg (50 lb.) bag covers 4.6 - 9.3 m^2 (50 - 100 sq. ft.) depending on the finish and texture used and flushness of the mortar joint. Severely recessed joints should be flushed first with ordinary mortar mixed with a 5:1 water/bonding adhesive solution.

Limitations

1. Only water need be added, as the surface bonding cement and nonstructural finish coat are complete. This particularly excludes the use of "anti-freeze" in winter.

   The addition of foreign material will change the chemical balance and the structural performance. The exception is that a polymer based concrete bonding adhesive may be added in accordance with manufacturer's specification.
2. Do not use Sparfil block that has clay or soil on the surfaces. This will impede the bonding of the surface bonding cement and may cause cracking.
3. Do not use wet Sparfil blocks and do not let rain and snow enter the wall. This can cause excessive drying shrinkage of the Sparfil block and discolouration and/or shadow crazing of the coating.
4. Do not use structurally in chimneys.
5. Use only masonry paints that are specifically recommended for use over alkaline surfaces such as green concrete, stucco and masonry.
6. Do not add colour pigments to the surface bonding cement or nonstructural finish coat as this may cause a change in the chemical balance and may result in an undesired colour.
7. Do not use lime-based mortar for levelling beds.

Building Codes

Structures built with the Sparfil Wall System should be designed, engineered and built in conformance with the applicable building code and structural data. The technical data and details in this Tech Sheet are given for informational purposes only and are not to be construed as overriding any requirements of any applicable building code.

TECH SHEET 4

JUNE 7, 1982

SPARFIL®

Sparfil International Inc., 5 Veronica St., Box 235,
Cobourg, Ontario, Canada K9A 4K5 (416)372-8550

COLD WEATHER CONSTRUCTION

Field Storage

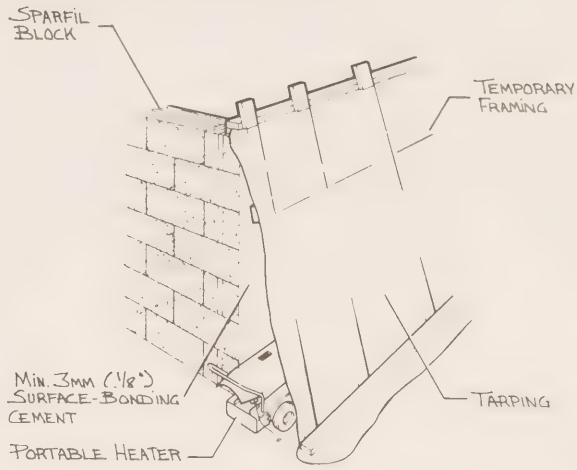
During cold weather construction, Sparfil blocks, surface bonding cement and nonstructural finish coat must be stored in their plastic wrapping on skids and protected from rain and snow until used. Wet Sparfil blocks must be allowed to dry before applying the first coat of surface bonding cement. Do not allow the bonding adhesive to freeze. Any frozen or previously frozen bonding adhesive must be discarded.

Stacking Sparfil Blocks

Sparfil blocks may be dry stacked in cold weather as described in Tech Sheet 2. However, during erection and until the tops of walls are permanently sealed the top course of Sparfil blocks must be protected from rain and snow with a plastic or canvas covering.

Surface Bonding and Finishing

Warning: Do not apply surface bonding cement or nonstructural finish coat when the temperature is below 4°C (40°F) without following the additional requirements described below. If, within 48 hours of application, the temperature does fall below 4°C (40°F) follow the protection requirements described below.



Not to Scale

Typical Cold Weather Protection

Work Day Temperature	Application Requirement	Protection Requirement
Above 4°C (40°F)	Normal Sparfil procedures.	Cover tops of walls with plastic or canvas at end of work day to prevent rain or snow entering wall.
0–4°C (32–40°F)	Heat mixing water to 20°C (68°F).	Cover walls from top to bottom with plastic or canvas at end of work day to protect the surface bonding cement or nonstructural finish coat from wetting and freezing.
-5–0°C (23–32°F)	Heat mixing water to 20°C (68°F). Maintain mixture above 4°C (40°F).	Cover walls from top to bottom with plastic or canvas during application and for 48 hours thereafter. Maintain walls above freezing for 48 hours after application using auxillary heat or insulated blankets.
Below -5°C (23°F)	Heat mixing water to 20°C (68°F). Maintain mixture on mortar board above 4°C (40°F).	Provide full enclosures around walls and supply sufficient heat to maintain enclosures above freezing during application and for 48 hours thereafter.

Limitations

1. Wet Sparfil blocks must be allowed to dry before applying the first coat of surface bonding cement.
2. Do not apply surface bonding cement onto ice or snow covered Sparfil blocks.
3. Do not use accelerators or anti-freezes in the surface bonding cement or nonstructural finish coat.
4. Do not use frozen or previously frozen bonding adhesive. It must be discarded.

Building Codes

Structures built with the Sparfil Wall System should be designed, engineered and built in conformance with the applicable building code and structural data. The technical data and details in this Tech Sheet are given for informational purposes only and are not to be construed as overriding any requirements of any applicable building code.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

TERMINATION OF AUTHORIZATIONS

B.M.E.C. #82-6-44
14 October 1982
and B.M.E.C. #78-1-9
13 November 1980

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF AUTHORIZATION TO:

Sparfil International Inc.
5 Veronica Street
P.O. Box 235
Cobourg, Ontario
K9A 4K5

and

Case Postale No. 9
Delson, Quebec
J0L 1G0

ON THE SUBJECT OF:

Sparfil wall system of surface bonded dry stacked block walls.

SHALL BE TERMINATED AS FOLLOWS:

Subject to paragraphs 1 and 4 of Authorizations B.M.E.C. #82-6-44, 14 October 1982 and B.M.E.C. #78-1-9, 13 November 1980, no further installation shall be made as of the date of this termination.

NOTE:

Only the Tech sheets 1, 2, 3 and 4 dated 7 June 1982, attached to Authorization B.M.E.C. #82-6-44 shall be carried foward to a new Authorization.

REASON:

Subject to paragraph 4 of the Authorizations the applicant has submitted a new applicaton with revisions and changes to the subject matter, therefore it is now necessary to issue a new Authorization B.M.E.C. #83-2-61 dated 20 October 1983.

MOVED AND ADOPTED THIS 20 DAY OF OCTOBER 1983, BY THE BUILDING MATERIALS EVALUATION COMMISSION.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

STANDPIPES

B.C.C. #82-6-97
23 August 1982

General Description of Project

A newly constructed one storey F-2 building of 46,162 sq.ft. non-combustible construction for sheltered storage of diesel fuelled buses and maintenance of same.

Reason for Application

Sentence 3.2.5.4.(2) requires 2½" diameter hose connections when building area exceeds 40,000 sq. ft.

Applicant's position

The building is 15% over the "square foot" restriction and in light of the very low occupancy of eight people and a single storey with good water supply the 1½" hose connections with 2" standpipe risers and laterals should be considered to be safe fire hose protection.

Building Official's position.

This one storey unsprinklered repair garage classified under 3.2.2.42. with 4.6.162 sq.ft. building area requires 2½" connections and the standpipe risers with lateral extensions must be 4" diameter.

Commission ruling

In favour of the Building Official. Concerning application #82-6-97 it is the decision of the Building Code Commission that the standpipe system does not comply with the fire safety requirements of the Ontario Building Code.

Reasons

Part 3 and Part 6 of the Ontario Building Code set out requirements for standpipe systems. The Applicants proposal does not meet the requirements for a fire extinguishing system in the building.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

EMERGENCY LIGHTING

B.C.C. #82-7-98
23 August 1982

General Description of Project

An existing 3 storey building with basement and multi tenants proposed to renovate approximately 10% of the first floor for an experimental film theatre.

Reason for Application

Sentence 3.2.8.2.(1)(b) requires emergency lighting and the Building Official is requesting that this be applicable to the entire building.

Applicant's Position

O.B.C. Sentence 3.2.9.1.(2) allows the proposed use within this existing warehouse and 3.2.4.1.(1) requires a fire alarm system (strickly speaking would apply to the materially altered portion only) as a partial fire alarm system serving the proposed use only, is not logical. It is proposed to install one throughout the building. Whereas the emergency lighting is proposed only in the area of new construction which does not increase the hazard levels to the remainder of the building.

Building Official's Position

The O.B.C. requires emergency lighting be provided in floor areas where public may congregate in Group A, Division 1 occupancies and in certain parts of buildings required by Subsection 3.2.4. to have a fire alarm system.

Commission Ruling

In favour of the Applicant. Concerning Application #82-7-98 it is the decision of the Building Code Commission that the proposed changes to 507 King Street East, Toronto to accommodate the funnel theatre meet the requirements of the Ontario Building Code, provided emergency lighting is throughout the area of construction and the means of egress.

Reasons

The Applicants proposal meets the requirements of the Ontario Building Code within the scope of the proposed construction.

AMENDMENT TO AUTHORIZATION

B.M.E.C. # 82-8-46
14 April 1983

IN THE MATTER OF SECTION 18(4)(b) of the Building Code Act R.S.O. 1980.

AND IN THE MATTER OF an authorization to:

Marley Roof Tiles Limited
281 Alliance road
Milton, Ontario
L9T 3M6

ON THE SUBJECT OF:

Marley concrete roof tile system used on pitched roofs of building structures.

SHALL BE AMENDED AS FOLLOWS:

Delete the existing paragraphs 6 and 7 and add new paragraphs 6 and 7 as follows...

6. All aspects of the Ontario Building Code Part 9 or Part 4 as applicable shall be complied with for new and existing roof support framing, rafters, trusses, sheathing, underlay and flashings.

   For Part 9 buildings the roof dead load shall be increased by 0.5 kN/m^2 (10 lbs/sq.ft.) to allow for the weight of the roof tiles. In lieu of plywood sheathing, 19 X 38 mm (nominal 1 X 2 in.) wood purlins (battens or strapping) at 338 mm (13¼in.) maximum spacing in conjunction with sheathing equivalent to Thermo-ply® or Thermo-bar® may be used.

7. For existing roofs the structural adequacy of the roof framing and the supporting walls shall be certified by a Professional Engineer registered in the Province of Ontario.

REASONS:

To more clearly define the Parts 9 and 4 of the O.B.C. in the matters of the extra dead load, sheathing, purlins and structural adequacy required by this roofing system.

MOVED AND ADOPTED THIS 14 DAY OF APRIL, 1983 BY THE BUILDING MATERIALS EVALUATION COMMISSION.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

OPEN STAIRWAYS AND FIRE SEPARATION

B.C.C. #82-8-99
24 August 1982

General Description of Project

A two storey existing building is classified as Personal service Group "D" (basement and first floor) and Residential occupancy Group "C" (second floor)

Reason for Application.

O.B.C. 9.9.4.6.(1) (f), 9.10.9.7. and Table 9.10.8.A. require fire resistance separation and basic requirements for Groups "D" and "E" and the proposed construction does not conform to these regulations.

Applicant's Position

Construction of an unenclosed convenience stair between the first storey and basement levels both of which have direct exits to the outdoors will be totally separated from the residential occupancy by 1 hour plaster and drywall.

Building Official's Position.

Clause 9.9.4.6.(1)(f) is not applicable as it is superseded by 9.10.9.7., and it is for "D" or "E" occupancy in regard to"a required exit", further it does require a 3/4 hour separation between basement and first floor.
Sentence 9.10.9.7. would permit an open stairway if the building is sprinklered and does not contain a residential occupancy otherwise Table 9.10.8.A. requires a 3/4 hour fire separation.

Commission Ruling

In favour of the Building Official, it is the decision of the Building Code Commission that application #82-8-99 does not conform to O.B.C. Regulation 925/75.

Reasons

The fire separation for the stairs between basement and first floor must conform to Table 9.10.8.A.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

CHIMNEY LINER

B.M. E. C. #82-9-47
9 September 1982

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF AN application by: National Supaflu Systems Inc., Route 30A, Box 289 Cobleskill, New York, U.S.A. Zip 12035 on the subject of the use of Supaflu Chimney Liner to line/reline residential masonry chimneys with a light weight, insulating material.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicated that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant and/or his agent at the above address, withdraw this authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. This authorization is not to be used as an endorsement of any product or system for promotional or advertising purposes.

3. This authorization does not in any manner warrant or guarantee the successful performance of the subject matter.

4. This authorization is for the applicant only at the above address and is not transferable, and shall be for the system as installed and maintained in accordance with the manufacturers instructions as submitted with this application. Any revision or change in the Applicant or the materials, use, or manufacturer of the product or process shall automatically be cause for termination, unless prior approval is granted for revision or change.

5. This authorization is only valid when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation. All applicable aspects of the Ontario Building Code shall be complied with except as authorized herein.

AND SPECIFIC REQUIREMENTS.

6. This authorization is limited to Ontario Building Code Part 9 buildings where the flue is for the use of solid fuel only and where the chimney is in a good state of repair. (Note: Gas and liquid fuels appliances are regulated separately by the Fuels Safety Branch and a separate application may be made to them).

Page 2....

7. Protection from the elements shall conform to O.B.C. Subsection 9.20.17 and installation shall be done by Supaflu trained personnel only.

8. This chimney liner shall have a minimum thickness of 16 mm (5/8 inches) and shall not negate the Code requirements for flue sizes or chimney construction.

9. The Supaflu lined chimney shall be capped by the use of a circular flue tile extending not more that 100 mm (4 in.) above a precast water proof concrete cap which has sloping top and overhangs the chimney by at least 50 mm (2 in.) with drip edges cast into the concrete cap not less than 25 mm (1 in.) from the face of the chimney, or stainless steel cap with formed drip edges.

10. This authorization is further limited for installations to 10 September 1985 when continuance may depend on an independent investigation report of those chimneys so-lined with the Supaflu system.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED AUTHORIZATION BY THE BUILDING MATERIALS EVALUATION COMMISSION

Amended
82-9-47
16 October 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

National Supaflu Systems Inc.
Box 89, Walton Industrial Park
Walton, New York, U.S.A.
Zip 13856

ON THE SUBJECT OF:

Supaflu, a chimney liner to line/reline residential masonry chimneys with a lightweight, insulating material.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

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5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This authorization is limited to Ontario Building Code, Part 9 buildings where the flue is for the use of solid fuel only and where the chimney is in a good state of repair. (Note: Gas and liquid fuels appliances are regulated separately by the Fuels Safety Branch and a separate application may be made to them.)

7. Protection from the elements shall conform to O.B.C. Subsection 9.20.17. Installation shall be done by the manufacturer's trained personnel only.

8. This chimney liner shall have a minimum thickness of 16 mm (5/8 inches) and shall not regate the Code requirements for flue sizes of chimney construction.

9. The lined chimney shall be capped by the use of a circular flue tile extending not more than 100 mm (4 in.) above a precast waterproof concrete cap which has sloping top and overhangs the chimney by at least 50 mm (2 in.) with drip edges cast into the concrete cap not less than 25 mm (1 in.) from the face of the chimney, or a stainless steel cap with formed drip edges.

10. Installation and materials shall be in accordance to the published instructions of the manufacturer as submitted to the COMMISSION to date of this AUTHORIZATION.

DATED at Toronto this 16th day in the month of October in the year 1985 for authorization # 82-9-47 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

WIDTH AND HEIGHT OF EXITS

B.C.C.#82-9-100
24 August 1982

General Description of Project

A newly constructed "L" shape plan three storey apartment building containing three exit stairways, one stairway is located in the right angle while the other two are at the end of the building.

Reason for Application

Construction errors within both the end stairways gave rise to non-conformance with the O.B.C. regulations 3.4.3.5.(2) 3.4.3.1.(6)(c), 3.4.8.4.(2) and 3.4.8.15.(2).

Applicant's Position

(a) 3.4.3.5.(2) existing headroom is one inch or less than the required "at least 6 ft. 9 in.".

(b) 3.4.8.15.(2) existing riser is two inches from exit door because an oversized door was installed, and it is proposed to change the door and frame conforming to 3.4.3.1.(6)(c) which would then allow eleven inches from exit door.

(c) 3.4.8.4.(2) one existing landing in west stair is 3½" and one landing in the south stair is 5 3/4" less than the O.B.C. requirements for the width.

Building Official's Position

An inspection of this building revealed a number of unsafe conditions and an Order to Comply was issued because the Building Official has no discretionary powers in these matters.

Commission ruling

In favour of the Applicant, In regard to application #82-9-100 it is the decision of the Building Code Commission that there is sufficiency of compliance with Ontario Regulation 925/75 in respect to:-

1. Headroom or the West stair and South stair
2. Proposed door clearance on the second floor.
3. Intermediate landing in West stair.

The Commission however, finds that the Intermediate landing in the South stair does not meet code requirements.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

HEAT RECOVERY SYSTEM

B.M.E.C. #82-10-48
9 September 1982

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF an application by: Indusco Sales Limited 48 Chauncey Avenue, Toronto, Ontario. M8Z 2Z4

ON THE SUBJECT OF: The use of Kitchen Exhaust, Heat Recovery by means of a washable plate type heat exchanger or heat coil.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicated that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant and/or his agent at the above address, withdraw this authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.
2. This authorization is not to be used as an endorsement of any product or system for promotional or advertising purposes.
3. This authorization does not in any manner warrant or guarantee the successful performance of the subject matter.
4. This authorization is for the applicant only at the above address and is not transferable, and shall be for the system as installed and maintained in accordance with the manufacturers instructions as submitted with this application. Any revision or change in the Applicant or the materials, use, or manufacturer of the product or process shall automatically be cause for termination, unless prior approval is granted for revision or change.
5. This authorization is only valid when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation. All applicable aspects of the Ontario Building Code shall be complied with except as authorized herein.
6. The tempered supply return air duct system shall be for the kitchen area only with a fire damper at the reclaim unit and the air duct beyond shall be installed in accordance with the Ontario Building Code 6.2.4.
7. Installation and maintenance shall comply with the Application and submitted data dated 10 August 1982 entitled Specification Sheets for Indusco Kitchen Heat Reclaim System including Typical drawing for Coil or Plate Heat Exchanger.
8. Except as noted above the entire system shall conform to NFPA 96-1980.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

STANDPIPE PIPING
DESIGN AND CONSTRUCTION

B.C.C.#82-10-101
19 October 1982

General Description of Project

Several existing horse barns were proposed to be upgraded via the fire protection system by installing a standpipe system.

Reason for Application

Sentence 6.7.3.6.(1) of the Building Code addresses the design working pressure and standards for steel copper etc. piping but does not directly mention P.V.C. piping.

Applicant's position

The horizontal underground portion of the fire protection standpipe system would be Polyvinyl Chloride Series 200 pressure pipe and fittings (C.S.A. B137.3). This material would be completely protected from physical and fire damage by a minimum of five feet of earth cover. Currently P.V.C. is used by several Municipalities and is acceptable by Ontario Reg. 736 for water service piping below grade, the N.F.C. allows P.V.C. underground fire protection (N.F.P.A. 24.7.-1).

Building Official's position

While he is not fully opposed to P.V.C. burried, it is his interputation that the O.B.C. only permitted steel and copper piping.

Commission ruling

In favour of the Applicant. On application #82-10-101, Building Code Commission. It is the decision of the Building Code Commission that application #82-10-101 in the matter regarding the Firestandpipes for the horse barns for Woodbine Racetrack in the Borough of Etobicoke, indicates a sufficiency of compliance.

Reasons

(1) It is a burried fire main pipe, burried five feet below surface coming from outside under the concrete slab to the foot of the standpipes five feet below and does not enter the building.

(2) The standpipes from the horizontal plastic P.V.C., series 200 fire main pipes has to be in steel pipes and no plastic P.V.C. pipe should be part of the vertical standpipes.

(3) Thrust blocks shall be installed at appropriate location at all turns to prevent movement of the horizontal burried P.V.C. piping.

(4) The P.V.C. plastic piping and fittings shall conform to Series 200, for a working pressure of 200 P.S.I.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

KITCHEN EXHAUST
DUCT DAMPER

B.M.E.C. #82-11-49
9 September 1982

IN THE MATTER OF SECTION 18(4)(b) of the Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF an application by: Ministry of Government Services, Ontario Ministry of Revenue, 33 King Street West Oshawa, Ontario L1H 1A1.

ON THE SUBJECT OF: The use of an automatic fire damper on the terminus of a kitchen exhaust duct, to reduce the exfiltration of air from this building AT THE ABOVE ADDRESS.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicated that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant and/or his agent AT THE ABOVE ADDRESS, withdraw this authorization and no further installation shall be made subsequent to the effective date of the termination as set out in the written notice.

2. This authorization is not to be used as an endorsement of any product or system for promotional or advertising purposes.

3. This authorization does not in any manner warrant or guarantee the successful performance of the subject matter.

4. The authorization is for the applicant only AT THE ABOVE ADDRESS and is not transferable, and shall be for the system as installed and maintained in accordance with the manufacturers instructions as submitted with this application. Any revision or change in the Applicant or the materials, use, or manufacture of the product or process shall automatically be cause for termination, unless prior approval is granted for revision or change.

5. This authorization is only valid when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation. All applicable aspects of the Ontario Building Code shall be complied with except as authorized herein. (i.e. Gas appliances are regulated separately by the Fuels Safety Branch and Ontario Hydro for electrical installations).

6. This authorization is for the installation of an automatic damper equal to Ruskin FD-35 and installed on the discharge outlet of the kitchen exhaust duct outside above the roof complete with a clear cut opening or openings through the approximate centre of the damper to equal 7 square inches to vent the gas pilots on the appliances served by this exhaust duct.

Page 2....

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

7. In lieu of a fusible link a limit switch mounted outside of the air stream to prove damper is fully open shall be activated by the blade of the damper.

8. Damper shall be driven open/closed with an electric motor mounted outside the air stream and in a weatherproof enclosure. Necessary wiring and control shall be provided not to allow the fan to start until the damper is in the fully open position and then only close when the fan is stopped.

9. Except as noted the entire kitchen duct system shall conform to the NFPA 96-1980.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

GUARDS ON EXTERIOR LANDING AND STAIR

B.C.C. #82-11-102
19 October 1982

General Description of Project

A newly renovated three storey house is now to contain a health food store in the basement, law offices and Commercial art gallery on the first floor, law offices on the second floor and residential dwelling on the third floor.

Reason for Application

9.8.8.7. of the O.B.C. requires openings in guards to prevent the passage of a spherical object having a diameter of 4 in. unless it can be shown to the chief official that the location and size does not represent a hazard.

Applicant's position

The exterior concrete landing has a substantial concrete curb and the guards are constructed of 3-1½ in. horizontal steel pipes at approximately 12 in. centres and welded to vertical 1½ in. pipes which are fastened to the concrete curb at each end of the landing. Since the building is essentially an office building there is very little hazard to small children.

Building Official's position

The Chief Building Official visited this site and found this new landing and stair had replaced an existing Code conforming landing, this was done to allow new egress to the basement area. The hazardous condition prevails in that the landing is about 11 ft. from the concrete walkway in the basement areaway as well the concrete retaining walls are located there, plus the additional height of the pipe rails whose design provide wide open spaces and a climbing ladder for all persons.

Commission ruling

In favour of the Building Official. It is the decision of the Building Code Commission that application #82-11-102 regarding the construction of guards at the entrance at 15 Bold Street in the City of Hamilton does not meet the requirements of the Ontario Building Code Subsection 9.8.8.

Reasons

(1) Intent of the Code is to protect the life safety of the public.

(2) The guards in question shall be altered so as to conform to Article 9.8.8.7. and to the satisfaction of the Chief building official.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

CHIMNEY & LINER

B.M.E.C. #82-12-50
17 November 1982

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF an application by: ISO - KAREN Aps, Industrivej, 7470 Karup J. Denmark, Agent: Norwegian Woodstoves, Division of Dahl Brothers (Canada) Ltd 2600 South Sheridan Way, Mississauga, Ontario. L5J 3Y1 on the subject of the use of ISO-KAREN Chimney and Liners for self contained new chimneys and/or to line new or reline existing masonry chimneys.

THE COMMISSION HEREBY AUTHORIZES To the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicated that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant and/or his agent at the above address, withdraw this authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.
2. This authorization is not to be used as an endorsement of any product or system for promotional or advertising purposes.
3. This authorization does not in any manner warrant or guarantee the successful performance of the subject matter.
4. This authorization is for the applicant only at the above address and is not transferable, and shall be for the system as installed and maintained in accordance with the manufacturers instructions as submitted with this application. Any revision or change in the Applicant or the materials, use, or manufacture of the product or process shall automatically be cause for termination, unless prior approval is granted for revision or change.
5. This authorization is only valid when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation. All applicable aspects of the Ontario Building Code shall be complied with except as authorized herein.
6. This authorization is limited to Ontario Building Code, Part 9 buildings for new self contained chimneys and/or to line or reline existing masonry chimneys where such chimneys are in a good state of repair.

(NOTE: Since this is listed to ULC-S629M and shall bear ULC labels it may be used with solid, gas or liquid fuels.)

7. Protection from the elements shall conform to O.B.C. Subsection 9.20.17 and installation shall be done by factory trained personnel only.
8. This chimney liner shall not negate the O.B.C. requirements for flue sizes.
9. The Iso-Karen chimney or liner shall be capped by extending the liner not more that 100 mm (4 in.) above a precast water proof concrete cap which has sloping top and overhangs the chimney by at least 50 mm (2 in.) with drip edges cast into the concrete cap not less than 25 mm (1 in.) from the face of the chimney, or a stainless steel cap with formed drip edges.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

STANDPIPE AND HOSE SYSTEM

B.C.C.#82-12-103
15 November 1982

General Description of Project

A new building under construction contains indoor tenant parking and mercantile on the ground first floor, additional mercantile and residential units are planned for the second floor, residential units occupy the third floor with two of these suites having two bedroomseach at a higher level or penthouse design.

Reason for Application

The determination of building size by the Building Official that this building is a four storey structure and as such requires a standpipe system in conformance to Sentence 3.2.5.4.(1)

Applicant's position

This particular design of building would seem to lie outside the strict intent of the Code and could qualify as a three storey building thereby not requiring a standpipe system. Exits from the upper bedrooms are to the roof with access to two fire rated stairways leading to the street. Floor and roof construction has a two hour fire rating, closers are installed on all suite exit doors and the building is equipped with fire alarm and smoke detectors.

Building Official's position

By simply looking at the plans it is obvious that there are four storeys in this building. The argument is that the top storey or penthouse floor should not be counted as a storey since it only contains bedrooms for two apartments on the third floor.Table 6.7. 3.A.(Note 1) states that a penthouse that exceeds 500 sq. ft. in floor area shall be considered a storey, the subject area is considerably more as it is 2500 sq. ft.

Commission ruling

In favour of the Building Official. It is the decision of the Building Code Commission that the applicant's proposed structure "Brownstones. 399 John Street, Burlington, Ontario does not meet the requirements of the Ontario Building Code in the matter of Sentence 3.2.5.4.(1).

Reasons

The Code is specific in the definitions in Part 1.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

KYNAR JACKETED
POWER LIMITED CABLES

B.M.E.C.#82-13-51
14 October 1982.

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF an application by: Penwalt of Canada Limited Kynar/Kynar 500, Plastics Department, P.O. Box 2067 Dorval, Quebec. H9S 3K7 on the subject of: The use of Kynar fluoropolymer insulated and jacketed power limited circuit cables in vertical and/or ceiling space used as plenums without conduit.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicated that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant and/or his agent at the above address, withdraw this authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.
2. This authorization is not to be used as an endorsement of any product or system for promotional or advertising purposes.
3. The authorization does not in any manner warrant or guarantee the successful performance of the subject matter.
4. This authorization is for the applicant only at the above address and is not transferable, and shall be for the system as installed and maintained in accordance with the manufacturers instructions as submitted with this application. Any revision or change in the Applicant or the materials, use, manufacturer of the product or process shall automatically be cause for termination, unless prior approval is granted for revision or change.
5. This authorization is only valid when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation. All applicable aspects of the Ontario Building Code shall be complied with except as authorized herein.
6. All cables tested as per standard UL 910 with a peak obscurity density of not more than 1.0 and a maximum flame spread less than 10.0 feet are considered equivalent to electrical conductors installed within metallic totally enclosed raceways.
7. Documentation supporting the above criteria from a recognized agency shall be made available upon request by the Chief Building Official.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

REQUIREMENTS FOR FIRE SAFETY

B.C.C. #82-13-104
15 November 1982

General Description of Project

A historical designated residential building underwent substantial renovations for commercial occupancy to utilize the basement, 3 storeys plus 4th floor attic areas. The Historical Board has investigated and have no objection to the outcome of the following situation as it would not affect the reasons for designation. The Board requests that the final results be recorded on plans filed with the Building Permit application documents, as they consider these documents to be the formal filing of any items affecting alterations to designated properties.

Reason for Application

The Building Official has requested the installation of a standpipe and hose system as per Sentence 3.2.5.4.(1)(a) of the Building Code.

Applicant's position

Subsection 3.2.9. Change of Occupancy, requires that Group D buildings over 3 storeys in height be provided with a standpipe system. We believe when there is a change of major occupancy the intent of this subsection, in regard to existing buildings of combustible construction, is to bring the building up to Code in all areas which affect "the safety of the occupants". Standpipes have little, if anything to do with "occupant safety", since any fires in the building can be adequately fought from the street through the extra large windows in the front and rear facades.

Building Official's position

Sentence 3.2.9.1. relaxes the requirements of Subsection 3.2.9. for change of occupancy in existing buildings notwithstanding that Clause 3.2.5.4.(1)(a) requires standpipe and hose system for buildings more than 3 storeys in height and the building in question is 4 storeys and basement.

Commission ruling

In favour of the Building Official. It is the decision of the Building Code Commission that the applicants renovations to the Structures at 78-80 Gerrard Street East involving a change or major occupancy does not meet the requirements of the Ontario Building Code in the matter of Subsection 3.2.9.

Reasons

It is not the intent of the Ontario Building Code that the provisions of Sentence 3.2.9.7.(1) apply to other than the construction feature of a structure. The applicable requirements of Part 3 other than as provided in Section 3.2. apply.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

ELECTRIC LOCKING SYSTEMS
FOR EXIT DOORS

B.M.E.C. #82-14-52
17 November 1982

IN THE MATTER OF Section 18(4)(b) of The Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF An Application by: Reliable Security Systems, Inc., 10604 Beaver Dam Road, Cockeysville, Maryland, U.S.A. 21030. Agent: W. Noble Electronic Security Inc., 575 Tedwyn Drive, Mississauga, Ontario. L5A 1K1 on the subject of: The use of doorGuard (TM), a time delay safety lock and devices for exit and access to exit doors, as manufactured by Reliable Security Systems Inc.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicated that this authorization should be amended and/or terminated the COMMISSION may, by written notice to the applicant and/or agent at the above address, withdraw this authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.
2. This authorization is for the applicant only at the above address and is not transfereble, and shall be for the system as installed and maintained in accordance with the manufacturers instructions. Any revision or change in the Applicant or the materials, use, or manufacture of the product or process shall automatically be cause for termination, unless prior approval is granted for revision or change.
3. This authorization does not in any manner warrant or guarantee the successful performance of the subject matter, and is not to be used as an endorsement of any product or system for promotional of advertising purposes.
4. This authorization is only valid when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation. All applicable requirements of the Ontario Building Code shall be complied with,

AND SPECIFIC REQUIREMENTS:

5. This authorization is not applicable to a Group F. Division 1 occupancy.
6. This authorization shall be used only within those buildings for which all doorGuard (TM) locking devices and components are interconnected with the building fire alarm system. The system shall have a continually monitored central control unit, which is manned by "supervisory staff" (see para. 8(c)) at all times the building is occupied. Provision shall be made such that all these devices can be de-energized simultaneously at this central unit.
7. The complete system of doorGuard (TM) locking devices shall be installed and approved in conformance to CAN4-S524-M82 and the Ontario Regulation 730/81, Fire Code, Section 6.3.

Page 2...

8. All doorGuard (TM) locking devices shall be de-energized immediately allowing the doors to be opened upon,

(a) the actuation of the initial stage of the fire alarm system, or
(b) the actuation of an automatic fire detection or extinguishing system if one is present, or
(c) the manual interruption of the doorGuard (TM) locking devices electrical circuit, by "supervisory staff" as defined in the Ontario Regulation 730/81, Fire Code, or
(d) the loss of electrical power controlling the locking devices or any fault in the installation.

9. A legible sign with 25 mm(1 in.) high by 20 mm (3/4 in.) wide and 5 mm (¼ in.) stroke lettering, and permanently mounted and maintained at all times on each door equipped with these devices. Such signs shall be mounted at 1.4 m (4ft. 6 in.) from finished floor to the bottom of such sign and shall state:

EMERGENCY EXIT
UNLOCKED BY FIRE ALARM
OR KEEP PUSHING DOOR
UNLOCKS IN 15 SECONDS

10. Illumination to an average level of at least 100 lx (10 ft. candles) shall be provided by emergency electrical power supply for the central control unit in para 6, and each sign in para.9.
11. The doorGuard (TM) shall be listed by Underwriters Laboratories Inc., or Underwriters Laboratories of Canada.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
#82-14-52
7 November
1986

AMENDED AUTHORIZATION BY THE BUILDING MATERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Reliable Security Systems Inc.
10604 Beaver Dam Road
Cockeyville, Maryland
U.S.A. 21030

ON THE SUBJECT OF:

doorGuard (TM), a time delay safety lock and devices for installation on an exit or access to exit door(s) or emergency access to floor areas.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination unless prior approval is granted for such revision or change by the COMMISSION.

.../2

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This complete system of Electromagnetic locking devices shall be installed and approved in conformance to CAN 4-S524-M82 and maintained in conformance to Ontario Regulation 730/81, Fire Code, Section 6.3. except as noted in the Building Code or stated herein.

7. Card identifiers and/or microprocessors with or without time delay to a maximum of 15 seconds may be used in addition to this ancillary device of electromagnetic locking device provided that:

   (a) the required sign and lettering have the added words... OR KEEP PUSHING DOOR UNLOCKS IN 15 SECONDS

8. This electromagnetic locking device may be installed on emergency access to floor areas from exit stairs, provided that conformance to the Code and this Authorization are met from the exit stair side of the access to the floor area, as well as from the floor area side of the exit to the stair.

9. This authorization exempts the Code requirement for "...not incorporating latches; pins or other similar devices..."

10. The doorGuard (TM) shall be listed by Underwriters Laboratories, or Underwriters Laboratories of Canada.

DATED at Toronto this 7th day in the month of November in the year 1986 for authorization #82-14-52 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

PROTECTION OF OPEN STAIRWAY

B.C.C. #82-14-105
8 December 1982

General Description of Project

A typical one storey factory type building with showroom and offices at the front added a second storey over the offices for additional office space.

Reason for Application

The incorporation of a new stairway in the two storey section of the building. Sentence 3.2.2.1.(6) to be enclosed by 3/4 hr. fire rated screen.

Applicant's position

Designation of the factory portion is Group F Division 2 and the office portion is Group D, both are completely separated by a 1 hour fire rating. Sentence 3.1.7.4.(4) of the O.B.C. allows an open stair in Group D that is sprinklered. In addition, a deluge sprinkler system at the first floor ceiling around the open stair and automatic smoke exhaust at the roof level of the new office area.

Building Official's position

Sentence 3.2.2.1.(6), requires that any building containing more than one major occupancy the requirements of Subsection 3.2.2. for the most restricted major occupancy contained, shall apply to the whole building. This building is an F2 and the Building Official is in no position to accept so called equivalent arrangements.

Commission ruling

In favour of the Applicant. The decision of the Building Code Commission (B.C.C.) is that the Applicants existing open stair as described in the B.C.C. Application #82-14-105 will have sufficiency of compliance with the Ontario Building Code provided that ....

(1) The two occupancies of the existing Building F2 for the Production Area and D for the showroom office area, and have a one hour fire separation between the two occupancies.

(2) That the subject open stair area will meet the Ontario Building Code requirements of a group D occupancy,

(a) and meet all conditions of the NFPA 13 regarding heat baffels and closely spaced sprinklers including an automatic smoke exhaust system at the second floor.

(3) If those conditions cannot be met, a 3/4 hour fire separation is required to enclose the existing open stair according to the Ontario Building Code requirement.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

ELECTRIC LOCKING SYSTEMS
FOR EXIT DOORS

B.M.E.C. #82-15-53
17 November 1982

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF an application by: Security Information Systems, 306 Rutherford South, Brampton, Ontario L6W 3K7 Agent: Mr. Peter Garnick, 1545 Birchmount Road #410 Scarborough, Ontario. M1P 2H2 on the subject of Security system combining time delay through the use of Indentimat (R) 5000 Microprocessor, Identimat (R) 200 card Identifier and Electro - Magnetic Locking Devices, for new and existing exit and access to exit doors to provide access and egress control during specified periods of time.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicated that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant and/or his agent at the above address, withdraw this authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.
2. This authorization is for the applicant only at the above address and is not transferable, and shall be for the system as installed and maintained in accordance with the manufacturers instructions. Any revision or change in the Applicant or the materials, use, or manufacture of the product or process shall automatically be cause for termination, unless prior approval is granted for revision or change.
3. This authorization does not in any manner warrant or guarantee the successful performance of the subject matter, and is not to be used as an endorsement of any product or system for promotional or advertising purposes.
4. This authorization is only valid when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation.

AND SPECIFIC REQUIREMENTS:

5. All applicable requirements of the Ontario Building Code and Building Materials Evaluation Commission (B.M.E.C.) authorizations shall be complied with, except as authorized herein.
6. This authorization shall be used only within those buildings for which B.M.E.C. has authorized Locking Devices. The devices shall be interconnected with the building fire alarm system and shall have a continually monitored central control unit, which is manned by "supervising staff" (see para. 8(c)) at all times the building is occupied. Provision shall be made such that all these devices can be de-energized simultaneously at the central control unit.

Page 2...

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

AND SPECIFIC REQUIREMENTS (CONT'D)

7. This complete system shall be installed and approved in conformance to the Ontario Regulation 730/81, Fire Code, Section 6.3.

8. All locking Devices shall be de-energized immediately allowing the doors to be opened upon,

(a) the actuation of the initial stage of the fire alarms systems, or
(b) the actuation of an automatic fire detection or extinguishing system if one is present, or
(c) the manual interruption of the devices circuit, by "supervisory staff" as defined in Ontario Regulation 730/81 Fire Code, or
(d) the loss of electrical power controlling the devices or any fault in the installation.

9. When this authorization is used in conjunction with B.M.E.C. authorized locking devices the required sign in such authorization shall be changed to state:

EMERGENCY EXIT UNLOCKED BY FIRE ALARM OR BY SECURITY SYSTEM

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

Amendment to
B.M.E.C. #82-15-53
as of
20 October 1983

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Mr. Stanley Green
Security Information Systems
306 Rutherford South
Brampton, Ontario
L6W 3K7

ON THE SUBJECT OF:

Security system combining time delay through the use of either Indentimat (R) 5000 Microprocessor or Indentimat (R) 200 card Indentifier, for new and existing exit and access to exit doors to provide access and egress control during specified periods of time and when used only with Electric Magnetic Locking Devices.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material; however, it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/...

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. All applicable requirements of the Building Materials Evaluation Commission (B.M.E.C.) authorizations for Electro Magnetic Locking Devices, shall be complied with except as authorized herein.

7. This authorization shall be used in conjunction with all B.M.E.C. authorized Electro Magnetic Locking Devices; and , shall be for any one or more of these ancillary devices which will allow exit or egress by authorized personnel without activating the fire alarm; but will, signal the "supervising staff".

8. When this authorization is used in conjunction with B.M.E.C. authorized Electro Magnetic Locking Devices, the required sign in such authorization shall be changed to state:

EMERGENCY EXIT UNLOCKED BY FIRE ALARM OR BY SECURITY SYSTEM

DATED at Toronto this 20th day in the month of OCT in the year 1983 for authorization # 82-15-53 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

TERMINATION OF AUTHORIZATION

B.M.E.C. #82-15-53
20 October 1983

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980

AND IN THE MATTER OF AUTHORIZATION TO:

Mr. Stanley Green
Security Information Systems
306 Rutherford South
Brampton, Ontario
L6W 3K7

ON THE SUBJECT OF:

Time delay through the use of either Identimat (R) 5000 Microprocessor or Identimat (R)200 card Identifier when used only with Electric Magnetic Locking Devices.

SHALL BE TERMINATED AS FOLLOWS:

Subject to paragraph one and five of the Authorization, no further installations shall be made as of the date of this termination.

REASONS:

The newly amended Ontario Building Code, Ontario Regulation 419/86, becomes effective on 20th October 1986 and the subject matter is now partly included in Sentence 3.4.7.12.(15). However, the B.M.E.C. has amended all authorizations on Electromagetic Locking Devices to include similar devices on the subject matter.

MOVED AND ADOPTED THIS 7 November 1986 BY THE BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

Information on decisions and authorizations may be obtained by writing to the Commission Secretary, 101 Bloor St. W., Toronto M5S 1P8

EXTERIOR CANOPIES

B.C.C. #82-15-106
8 December, 1982

General Description of Project

A newly constructed canopy in front of the main entry to an apartment building was composed of hollow steel members with acrylic domes forming a roof for protection from rain for persons arriving at the building.

Reason for Application

Sentence 3.2.2.6.(2) requires every opening in the exposed exterior wall of the building within 15 ft. horizontally and 30 ft. vertically above such canopy to be protected with wire glass.

Applicant's position

That the domes fulfill the same function that a canvas or vinyl awning would, that is protection from rain. The structure is fully exterior to the building and it covers an entrance which is not a required means of egress from the building. If the Code were applied to all buildings as interpreted by the Building Official, no canvas or vinyl awnings would be permitted.

Building Official's position.

The Ontario Building Code, Sentence 3.2.2.6.(2) is very clear in the requirement for protection of openings above a canopy. Wire glass in accordance with Article 3.1.7.3. or equivalent is required.

Commission ruling

In favour of the Building Official. It is the decision of the Building Code Commission that the subject existing canopy described in Application #82-15-106 does not comply with the Ontario Building Code. Section 3.2. Sub-section 3.2.2. Sentence 3.2.2.6.(2).

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#82-16-54
20 October 1983

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Triple-A Manufacturing Company Limited
44 Milner Avenue
Scarborough, Ontario
M1S 3P8

ON THE SUBJECT OF:

A self contained structural shelf and rack storage facility, with a solid intermediate deck level or levels for personnel access, to be used as a method of storage facilities within a building.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/...

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6.(1) The structural design of the entire rack storage support system including posts, beams, decks, connections, and their supports such as concrete slabs, separate foundations or similar shall be in accordance with Ontario Building Code Part 4 requirements.

(2) Detailed drawings for each installation shall be stamped by a member of the Association of Professional Engineers of Ontario certifying conformity with this authorization. These drawings shall also detail an appropriate sign to indicate the maximum permissible design loads for each rack storage system and such sign shall be permanently fixed to the building interior and displayed in a prominent unobstructed viewing position. These drawings shall be submitted for a building permit in the usual way.

7. An approved wet pipe sprinkler system shall be designed and installed for the entire shelf and rack storage facility including the top level and shall be in conformance with N.F.P.A. 13-1983, and N.F.P.A. 231C-1980 or the appropriate N.F.P.A. Standard for the most severe hazard that it is exposed to. Sprinklers are not required where only Class 1 commodities as defined in the following paragraph 8.(2) are stored.

3/...

8.(1)(a) The entire shelf and rack storage dimension shall be limited to Table 8.A. based on the type of commodity stored as defined in paragraph 8.(2), (3), (4) and (5). Excerpts of N.F.P.A. 231C-1980 are outlined in the attached appendix dated 20 October, 1983.

(b) A firewall as defined in the Ontario Building Code Regulation 583/83, may divide the confining building into two or more separate buildings, wherein, one of the following classes may be assigned to each of the separate buildings;

(2) Class I commodities are noncombustible products, as defined in N.F.P.A. 231C-1980; or

(3) Class II, III and IV commodities are combustible products, as defined in N.F.P.A. 231C-1980; or

(4) Class SS commodities are special hazard products not covered in paragraph 8.(2), (3) or (5);

(5) Aerosol products composed of greater than 55% nonwater miscible flammable products including lubricants, paints oil-based anti-perspirants, furniture polish, insecticides and automotive products, are to be stored only:

(a) on the ground floor of the racking system, and

(b) in a designated area separated by,

(i) a vertical 1 hr. fire separation, or

(ii) a vertical chain link fencing not lighter than 9 ga. steel wire made into a 50 mm (2 in.) diamond mesh, located not less than 2.5 m (8 ft.) from all other storage where the adjacent storage is more hazardous than Class IV commodity, or

(iii) a method acceptable to the Chief Fire Official, and

(c) in the designated area protected by an in rack sprinkler system. The sprinkler demand shall be a minimum of 1.9 L/s (30 g.p.m. (U.S.)) discharge per head with 74°C (165°F) heads or less and shall be 2.5 m (8 ft.) apart maximum. This design shall be further based on the operation of the hydraulically most remote;

4/...

(i) 8 sprinklers if one level, or

(ii) 6 sprinklers on each level if only two levels, or

(iii) 6 sprinklers on each of the top three levels if three or more levels.

(d) Single row racks shall require only the inrack sprinklers, whereas, double row racks shall require sprinklers in longitudinal flue as well as on face sprinklers which shall be staggered on opposite sides of racks.

TABLE 8.A.
Forming Part of Paragraph 8.

Shelf and Rack Storage Facility				
Commodity classes	Maximum Height (1)		Maximum Area (2)	
	m	ft	m^2	sq.ft.
Class 1	6	20	unlimited	unlimited
	12	40	20,070	216,000
	18	60	13,380	144,000
Class II, III, and IV	6	20	8,920	96,000
	12	40	4,460	48,000
	18	60	2,230	24,000
Class SS	6	20	3,340	36,000
	12	40	1,670	18,000
	18	60	1,110	12,000
Column 1	2	3	4	5

NOTE: (1) The maximum height shall be from the floor supporting the shelf and rack system to the topmost portion of the racking system.

(2) The maximum area is the sum total of all levels of the shelf and rack system as well as the floor.

5/...

9. A plain legible sign or signs, with contrasting letters and titled "NOTICE", shall describe the above Class and requirements for each shelf and rack storage facility. This sign or signs shall be permanently mounted, at or near the main water supply for the sprinkler system and shall be maintained at all times. For Class 1 commodities this "NOTICE" shall be permanently mounted, at or near the main entrance to this shelf and rack storage facility.

10.(1)Exits shall be separated from the rack storage facilities with fire separations, having a fire resistance rating conforming to Subsection 3.4.5. of the Ontario Building Code; and

(2)the stair shafts shall conform to all requirements for exits as stated in Section 3.4. of the Ontario Building Code; and

(3)no fewer than 2 exits are required from each deck level,with a maximum travel distance to exits not to exceed 46 m (150 ft.).

11. The travel distance to a fire extinguisher shall not exceed 23 m (75 ft.).

12.(1)Where a shelf and rack storage facility contains two or more deck levels and where each deck level is greater than 239 m^2 (2,500 sq.ft.), a smoke detection system shall be installed on the underside of each deck level on which a walkway or aisle is located, and

(2)the number of system smoke detectors installed shall be in accordance to U.L.C. S524-M1980.

13. The clear aisle width shall not be less than 760 mm (30 inches).

14. This shelf and rack storage facility is not permitted in F-1 occupancy as defined in the Ontario Building Code.

6/...

15. The shelf and rack storage facilities shall be used only for storage and not for manufacturing, production, wrapping or assembly.

16. The shelf and rack storage facilities shall be accessible to employees only and shall be designated, signed and posted as a "NO SMOKING" area conforming to Subsection 2.4.3. of the Ontario Fire Code.

17.(1) In building areas containing shelf and rack storage facilities exceeding 4,645 m^2 (50,000 sq.ft.) and except for storage of Class 1 commodites as defined in paragraph 8 of this document, manually operated smoke vents shall be installed in accordance with N.F.P.A. 204, Section 230, and

(2) The smoke vent opening shall be not less than 1.2 m by 1.8 m (4 ft. by 6 ft.) and the openings shall be located not more than 23 m (75 ft.) from any exterior wall and not more than 46 m (150 ft.) from each other.

18.(1) A standpipe and hose system shall be installed in accordance with Article 3.2.5.4. of the Ontario Building Code where the shelf and rack storage facility height is more than 3 levels including floor level or 14 m (45 ft.) in height.

(2) Where a standpipe and hose system is required, 6.3 mm (2½ in.) diameter hose connections shall be provided, except that 38.1 mm (1½ in.) hose connections are permitted in the shelf and rack storage facilities which

(a) neither exceed 6 levels including the floor level and

(b) do not exceed 3,716 m^2 (40,000 sq.ft.) in the sum total of all levels of the shelf and rack storage facility.

DATED at Toronto this 20 day in the month of OCT. in the year 1983 for authorization # 82-16-54 on behalf of:

BUILDING MATERIALS EVAULATION COMMISSION

APPENDIX

20 October 1983

RE: AUTHORIZATION TRIPLE - A, B.M.E.C. # 82-16-54

Commodity Classifications.
The following guide for commodity classification applies specifically to rack storage and is not related to any other method of classification of materials.

Class I commodity is defined as essentially noncombustible product on wood pallets, or in ordinary corrugated cartons with or without single thickness dividers, or in ordinary paper wrappings, all on wood pallets. Such products may have a negligible amount of plastic trim, such as knobs or handles.

Examples of Class I products are:

Metal Products. Metal desks with plastic tops and trim, electrical coils, electrical devices in their metal enclosures, pots and pans, electrical motors, dry cell batteries, metal parts, empty cans, stoves, washers, dryers and metal cabinets.

Glass Products. Glass bottles, empty or filled with noncombustible liquids; mirrors.

Foods. Foods in noncombustible containers; frozen foods; meat; fresh fruits and vegetables in nonplastic trays or containers; dairy products in nonwax-coated paper containers; beer or wine up to 20 percent alcohol, in metal, ceramic or glass containers.

Others. Oil-filled and other types of distribution transformers, cement in bags, electrical insulators, gypsum board, inert pigments, dry insecticides.

Class II commodity is defined as Class I products in slatted wooden crates, solid wooden boxes, multiple thickness paperboard cartons, or equivalent combustible packaging material on wood pallets.

Examples of Class II products are: thinly coated fine wire such as radio coil wire on reels or in cartons; incandescent or fluorescent light bulbs; beer or wine up to 20 percent alcohol in wood containers; and Class I products, if in small cartons or small packages placed in ordinary corrugated cartons.

Class III commodity is defined as wood, paper, natural fiber cloth, or products thereof, on wood pallets. Products may contain a limited amount of plastics. Wood dressers with plastic drawer glides, handles, and trim are examples of a commodity with a limited amount of plastic.

Examples of Class III products are:

Page 8...

Paper Products. Books, magazines, newspapers; stationery; plastic coated paper food containers; paper or cardboard games; tissue products; rolled paper on side or steel banded on end; and regenerated cellulosics (cellophane).

Leather Products. Shoes, jackets, gloves, and luggage.

Wood Products. Doors, windows, door and window frames, combustible fiberboard, wood cabinets, furniture and other wood products.

Textiles. Natural fiber upholstered nonplastic furniture; wood or metal furniture with plastic padded and covered arm rests; mattresses without expanded plastic or rubber; absorbent cotton in cartons; natural fiber and viscose yarns, thread, and products; and natural fiber clothing or textile products.

Others. Tobacco products in paperboard cartons; nonflammable liquids such as soaps, detergent and bleaches, and nonflammable pharmaceuticals in plastic containers; combustible foods or cereal products; and nonnegative producing film packs in sealed metal foil wrappers in paperboard packages.

Class IV commodity is defined in Class I, II and/or III products containing an appreciable amount of plastics in a paperboard carton or Class I, II and/or III products with plastic packing in paperboard cartons on wood pallets.

Examples of Class IV products are: small appliances, typewriters and cameras with plastic parts; plastic backed tapes and synthetic fabrics or clothing. An example of packing material is a metal product in a foamed plastic cocoon in a corrugated carton.

Class IV commodity also includes:

Textiles. Synthetic thread and yarn except viscose, and non-viscose synthetic fabrics or clothing.

Others. Telephones, vinyl floor tile, wood or metal frame upholstered furniture or mattresses with plastic covering and/or padding, and plastic padded metal dashboards or metal bumpers.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

AMENDED
#82-16-54
16 October 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Triple-A Manufacturing Company Limited
44 Milner Avenue
Scarborough, Ontario
M1S 3P8

ON THE SUBJECT OF:

A self contained structural shelf and rack storage facility within a building, having one or more solid intermediate deck or walkway levels for personnel access.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/...

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6.(1)(a) Deck level shall be a continuous horizontal construction membrane through the entire shelf rack facility, and

(b) Walkway level shall be the horizontal construction membrane between the solid shelving installed on the same plane, and

(c) Level area means the greatest horizontal area of the shelf and rack storage facility.

(2)(a) Deck or walkway levels shall be constructed of solid closed surface steel planking or,

(b) Steel roof decking with minimum 16 mm (5/8 in.) maximum 19 mm (3/4 in.) thick tongue and groove solid wood or plywood.

(3) The structural design of the entire shelf and rack storage facility support system including posts, beams, decks, walkways, connections, and their supports such as concrete slabs, separate foundations or similar shall be in accordance with Ontario Building Code Part 4 requirements.

(4) Detailed drawings for each installation shall be stamped by a member of the Association of Professional Engineers of Ontario certifying conformity with this authorization. These drawings shall also detail an appropriate sign to indicate the maximum permissible design loads for each rack storage system and such sign shall be permanently fixed to the building interior and displayed in a prominent unobstructed viewing position. These drawings shall be submitted for a building permit in the usual way.

7. An approved wet pipe sprinkler system shall be designed and installed for the entire shelf and rack storage facility including the top level and shall be in conformance with N.F.P.A. 13-1983, and N.F.P.A. 231C-1980 or the appropriate N.F.P.A. Standard for the most severe hazard that it is exposed too. Sprinklers are not required where only Class 1 commodities as defined in the following paragraph 8.(2) are stored.

8.(1)(a) The entire shelf and rack storage dimension shall be limited to Table 8.A. based on the type of commodity stored as defined in paragraph 8, (2), (3), (4) and (5). Excerpts of N.F.P.A. 231C-1980 are outlined in the attached appendix dated 20 October 1983.

(b) A firewall as defined in the Ontario Building Code Regulation 583/83, may divide the confining building into two or more separate buildings, wherein, one of the following classes may be assigned to each of the separate buildings.

(2) Class I commodities are non-combustible products, as defined in N.F.P.A. 231C-1980; or

(3) Class II, III, and IV commodities are combustible products, as defined in N.F.P.A. 231C-1980; or

(4) Class SS commodities are special hazard products not covered in paragraph 8.(2), (3) or (5);

(5) Aerosol products composed of greater than 55% non-water miscible flammable products including lubricants; paints oil-based anti-perspirants, furniture polish, insecticides and automotive products, are to be stored only:

(a) On the ground floor of the racking system, and

(b) In a designed area separated by,

(i) a vertical 1 hr. fire separation, or

(ii) a vertical chairn link fencing not lighter than 9 ga. steel wire made into a 50 mm (2 in.) diamond mesh, located not less than 2.5 m (8ft.) from all other storage where the adjacent storage is more hazardous than Class IV commodity, or

(iii) a method acceptable to the chief Fire Official, and

(c) In the designated area protected by an in-rack sprinkler system. The sprinkler demand shall be a minimum of 1.9 L/s (30 g.p.m. (U.S.)) discharge per head with 74°C (165°F) heads or less and shall be 2.5 m (8 ft.) apart maximum. This design shall be further based on the operation of the hydraulically most remote;

(i) 8 sprinklers if one level, or

(ii) 6 sprinklers on each level if only two levels, or

(iii) 6 sprinklers on each of the top three levels if three or more levels.

(d) Single row racks shall require only the inrack sprinklers, whereas, double row racks shall require sprinklers in longitudinal flue as well as on face sprinklers which shall be staggered on opposite sides of racks.

TABLE 8.A.
Forming Part of Paragraph 8

Shelf and Rack Storage Facility				
Commodity Classes	Maximum Height (1)		Maximum Area (2)	
	m	ft	m^2	sq. ft.
Class I	6 12 18	20 40 60	unlimited 20,070 13,380	unlimited 216,000 144,000
Class II, III, and IV	6 12 18	20 40 60	8,920 4,460 2,230	96,000 48,000 24,000
Class SS	6 12 18	20 40 60	3,340 1,670 1,110	36,000 18,000 12,000
Column 1	2	3	4	5

NOTE: (1): The maximum height shall be from the floor supporting the shelf and rack system to the topmost portion of the racking system.

(2): The maximum area is the sum total of all levels of the shelf and rack system as well as the floor.

9. A plain legible sign or signs, with contrasting letters and titled "NOTICE", shall describe the above Class and requirements for each shelf and rack storage facility. This sign or signs shall be permanently mounted, at or near the main water supply for the sprinkler system and shall be maintained at all times. For Class 1 commodities this "NOTICE" shall be permanently mounted, at or near the main entrance to this shelf and rack storage facility.

10.(1) Exits shall be separated from the rack storage facilities with fire separations, having a fire resistance rating conforming to Subsection 3.4.5 of the Ontario Building Code; and

(2) the exit stair shafts shall conform to all requirements for exits as stated in Section 3.4 of the Ontario Building Code; and

(3) no fewer than 2 exits are required from each deck or walkway level, except where there are not more than two levels above the building floor, and the level area does not exceed 139 m^2 (1500 sq. ft.), two means of egress shall be required without the requirements of fire separation for exit, and

(4) any opening in a deck for egress, convenience stairs, ramps or chutes, shall be protected by smoke baffles and close spaced sprinklers as per paragraph 7 of this authorization.

11. The maximum travel distance to exits shall not exceed 46 m (150 ft.) and to a fire extinguisher shall not exceed 23 m (75 ft.).

12.(1) Where a shelf and rack storage facility contains two or more deck or walkway levels and where each level is greater than 239 m^2 (2,500 sq. ft.), a smoke detection system shall be installed on the underside of each deck level on which a walkway or aisle is located, and

(2) the number of system smoke detectors installed shall be in accordance to CAN4-S524-M1982.

13. The clear aisle width shall not be less than 760 mm (30 inches).

14. This shelf and rack storage facility is not permitted in F-1 occupancy as defined in the Ontario Building Code.

15. The shelf and rack storage facilities shall be used only for storage and not for manufacturing, production, wrapping or assembly.

16. The shelf and rack storage facilities shall be accessible to employees only and shall be designated, signed and posted as a "NO SMOKING" area conforming to Subsection 2.4.3 of the Ontario Fire code.

17.(1) In building areas containing shelf and rack storage facilities exceeding 4,645 m^2 (50,000 sq. ft.) and except for storage of Class I commodities as defined in paragraph 8 of this document, manually operated smoke vents shall be installed in accordance with N.F.P.A. 204, Section 230, and

(2) The smoke vent opening shall be not less than 1.2 m by 1.8 m (4 ft. by 6 ft.) and the openings shall be located not more than 23 m (75 ft.) from any exterior wall and not more than 46 m (150 ft.) from each other.

18.(1) A standpipe and hose system shall be installed in accordance with Article 3.2.5.4 of the Ontario Building Code where the shelf and rack storage facility height is more than 3 levels including floor level or 14 m (45 ft.) in height.

(2) Where a standpipe and hose system is required, 63.5 mm (2-1/2 in.) diameter hose connections shall be provided, except that 38.1 mm (1-1/2 in.) hose connections are permitted in the shelf and rack storage facilities which;

(a) neither exceed 6 levels including the flo

(b) do not exceed 3,716 m^2 (40,000 sq. ft.) in the sum total of all levels of the shelf and rack storage facility.

APPENDIX

RE: AUTHORIZATION Triple-A

B.M.E.C. #82-16-54
Amended 16 October 1985

Commodity Classifications:

The following guide for commodity classification applies specifically to rack storage and is not related to any other method of classification of materials.

Class I commodity is defined as essentially non-combustible product on wood pallets, or in ordinary corrugated cartons with or without single thickness dividers or in ordinary paper wrappings, all on wood pallets. Such products may have a negligible amount of plastic trim, such as knobs or handles.

Examples of Class I products are:

Metal Products. Metal desks with plastic tops and trim, electrical coils, electrical devices in their metal enclosures, pots and pans, electrical motors, dry cell batteries, metal pots and pans, electrical motors, dry cell batteries, metal parts, empty cans, stoves, washers, dryers and metal cabinets.

Glass Products. Glass bottles, empty or filled with non-combustible liquids, mirrors.

Foods. Foods in non-combustible containers; frozen foods; meat, fresh fruits and vegetables in non-plastic trays or containers; dairy products in nonwax-coated paper containers, beer or wine up to 20 percent alcohol, in metal, ceramic or glass containers.

Others. Oil-filled and other types of distribution transformers, cement in bags, electrical insulators, gypsum board, inert pigments, dry insecticides.

Class II commodity is defined as Class I products in slatted wooden crates, solid wooden boxes, multiple thickness paperboard cartons, or equivalent combustible packaging material on wood pallets.

Examples of Class II products are: thinly coated fine wire such as radio coil wire on reels or in cartons; incandescent or fluorescent light bulbs; beer or wine up to 20 percent alcohol in wood containers; and class I products, if in small cartons or small packages placed in ordinary corrugated cartons.

Class III commodity is defined as wood, paper, natural fiber cloth, or products thereof, on wood pallets. Products may contain a limited amount of plastics. Wood dressers with plastic drawer guides, handles, and trim are examples of a commodity with limited amount of plastic.

8/...

Examples of Class III products are:

Paper Products. Books, magazines, newspapers, stationery, plastic coated paper food containers, paper or cardboard games, tissue products, rolled paper on side or steel banded on end, and regenerated cellulosics (cellophane).

Leather Products. Shoes, jackets, gloves, and luggage.

Wood Products. Doors, windows, door and window frames, combustible fiberboard, wood cabinets, furniture and other wood products.

Textiles. Natural fiber upholstered non-plastic furniature, wood or metal furniture with plastic padded and covered arm rests, mattresses without expanded plastic or rubber, absorbent cotton in cartons, natural fiber and viscose yarn thread, and products, and natural fiber clothing or textile products.

Others. Tobacco products in paperboard cartons, non-flammable liquids such as soaps, detergent and bleaches, and non-flammable pharmaceuticals in plastic containers; combustible foods or cereal products, and non-negative producing film packs in sealed metal foil wrappers in paperboard packages.

Class IV commodity is defined in Class I, II and/or III products containing an appreciable amount of plastics in a paperboard carton or Class I, II and/or III products with plastic packaging in paperboard cartons on wood pallets.

Examples of Class IV products are small appliances, typewriters and cameras with plastic parts, plastic backed tapes and synthetic fabrics or clothing. An example of packing material is a metal product in a foamed plastic cocoon in a corrugated carton.

Class IV commodity also includes:

Textiles. Synthetic thread and yarn except viscose, and non-viscose synthetic fabrics or clothing.

Others. Telephones, vinyl floor tile, wood or metal frame upholstered furniture or mattresses with plastic covering and/or padding, and plastic padded metal dashboards or metal bumpers.

DATED at Toronto this 16th day in the month of October in the year 1985 for authorization # 82-16-54 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

FIRE PROTECTION
OF EXITS

B.C.C. #82-16-107
26 January 1983

General Description of Project

This existing building is three storeys high, has a building area of approximately 4,500 sq.ft., and is a combination of combustible and noncombustible construction. The three storeys above grade level are not sprinklered, whereas the basement is fully sprinklered.

Reason for Application

One of the two required exit stair enclosures is constructed with a combination of wired glass in steel frames and drywall on steel studs. According to the Building Official this enclosure does not comply with Sentence 9.10.14.1.(2).

Applicant's Reason

The wired glass enclosure meets the dimensional requirements of Article 9.10.14.3. and it is permitted in Article 9.9.4.3. Subsection 9.10.14. addresses itself to doors, dampers and closures used in fire separations and Subsection 9.9.4. addresses the degree of fire separation required for exits. In particular, Article 9.9.4.3. places no restriction on the occupancy configurations or design of the floor area adjacent to the exit stair containing the wired glass.

Building Official's Position

Sentence 9.10.14.1.(2) permits wired glass between an exit stair and a public corridor or vestibule under certain conditions. However, the applicant proposes a wired glass enclosure between the exit stair and the general office area.

Commission Ruling

In favour of the applicant. This application complies with the Ontario Building Code.

Reasons

The existing usage is in agreement with Article 9.9.4.3. of the Ontario Building Code and is not further limited or restricted therein.

KITCHEN EXHAUST
HEAT RECLAIM SYSTEMS

B.M.E.C. #82-17-55
14 April, 1983

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF an application by Temprite Industries Ltd., 5 Centennial Road, Orangeville, Ontario, L9W 1R1, on the subject of Temprite HRK series Kitchen Heat Reclaim Systems via heat plate/pipe exchanger with separate air streams.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter, subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant and/or his agent at the above address, withdraw this authorization and no further installations shall be made subsequent to the effective date of termination as set out in the written notice.

2. This authorization is not to be used as an endorsement of any product or system for promotional or advertising purposes.

3. This authorization does not in any manner warrant or guarantee the successful performence of the subject matter.

4. This authorization is for the applicant only at the above address and is not transferable, and shall be for the system as installed and maintained in accordance with the manufacturer's instructions as submitted with this application. Any revision or change in the Applicant or the materials, use, or manufacture of the product or process shall automatically be cause for termination, unless prior approval is granted for the revision or change.

5. This authorization is only valid when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation. All applicable aspects of the Ontario Building Code shall be complied with except as authorized herein.

6. The tempered supply return air duct system shall be for the kitchen area only with a fire damper at the recovery unit, and the duct beyond shall be installed in accordance with the Ontario Building Code 6.2.4.

7. Installation and maintenance shall comply with the Application and proposals dated 11 February or 22 and 25 April 1983, as submitted by the Applicant and including drawings X11664, X11663, X6700/W, X11549/P, X11621 and Installation and Instruction Manual for Heat Recovery Systems.

Page 2....

8. This authorization does not include any gas or liquid fired make up air units. A separate approval must be made to the Fuels Safety Branch for the use of such units.

9. Except as noted above the entire system shall conform to NFPA 96-1980.

General Description of Project

A new addition of 2,200 sq.ft., which faces 2 streets, is proposed for an existing building where automobile batteries are manufactured. The existing portion of the building is fully sprinklered but the new addition is not sprinklered.

Reason for Application

The Building Official classified the entire plant of 72,249 sq.ft. under Article 3.2.2.42. which requires complete sprinklering for a one storey building facing two streets.

Applicant's Position

The use of the new addition has existed since the original building was constructed 21 years ago. Experience has shown that the fumes of this "Forming Room" did not allow metal piping for sprinklers to be installed originally. Since there is a high acid content in the atmosphere of this room, any exposed metal tends to corrode very quickly. There is a mandatory requirement for the one or two workmen to wear masks, rubber boots and aprons.

Leaking sprinkler piping or falling pipe would be extremely hazardous to the life safety of the workers. Further, there is no fireload other than a few wood slats but all these are constantly wetted by the spills of water and acid.

Building Official's Position

No records can be found why the "Forming Room" was not originally sprinklered while the remaining portion was fully sprinklered and a standpipe and hose system was installed. Article 3.2.5.4. requires sprinklers and a standpipe and hose system throughout the building, and this does not omit the new addition.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that this application indicates a sufficiency of compliance with the Ontario Building Code provided that:

(1) the area of the existing battery room, which will be added to the existing sprinklered plant by removing the partitions between column lines 19 and 17, will be sprinklered, and

(2) that sufficient fire extinguishers, in conformity with the NFPA Standards, will be installed adjacent to the new addition.

Reasons

The acid fumes created by the manfuacture of the batteries corrode any metals, such as steel structures and sprinkler systems, and the danger exists that by suddenly releasing water from one or more sprinkler heads, through corrosion of the sprinkler head by the acid, life safety of the workmen will be endangered.

CHIMNEY LINER

B.M.E.C. #82-18-56
14 April, 1983

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980

AND IN THE MATTER OF an application by Doughty Concrete Products Limited, P.O. Box 501, Smith Township, Peterborough, Ontario K9J 6Z6 on the subject of the use of DCP High Temperature Flue liners to line/reline concrete or masonry chimneys with this concrete flue liner.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter, subject to the following terms and conditions:

1. Where in the opinion of the Commission negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant and/or his agent at the above address, withdraw this authorization and no further installations shall be made subsequent to the effective date of termination as set out in the written notice.

2. This authorization is not to be used as an endorsement of any product or system for promotional or advertising purposes.

3. This authorization does not in any manner warrant or guarantee the successful performance of the subject matter.

4. This authorization is for the applicant only at the above address and is not transferable, and shall be for the system as installed and maintained in accordance with the manufacturer's instructions as submitted with this application. Any revision or change in the Applicant or the materials used or manufacture of the product or process shall automatically be cause for termination, unless prior approval is granted for the revision or change.

5. This authorization is only valid when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation. All applicable aspects of the Ontario Building Code shall be complied with except as authorized herein.

AND SPECIFIC REQUIREMENTS

6. This authorization is limited to Ontario Building Code Part 9 buildings where the flue is for the use of solid fuel and where the chimney is in a good state of repair.

Page 2...

7. This DCP High Temp liner shall be installed with high temperature cement mortar conforming to CGSB Standard 10-GP-3M, "Mortar, Refractory Air Setting".

8. This chimney liner shall have an approximate wall thickness of 25 mm (1 inch) and shall not negate the Code requirements for flue sizes or chimney construction as in O.B.C. Section 9.21.

9. The DCP High Temp Flue lined chimney shall be capped by the use of the flue liner extending not more than 100 mm (4 in.) above a precast water proof concrete cap which has a sloping top and overhangs the chimney by at least 50 mm (2 in.), with drip edges cast into the concrete cap not less than 25 mm (1 in.) from the face of the chimney, or a stainless steel cap with formed drip edges.

10. This authorization is further limited to the continuance of C.M.H.C. Building Materials Evaluation Report.

General Description of Project

A proposed new three storey addition for laboratory and associated offices was to be built adjacent to a taller existing high voltage test hall where hydro electric transformers were being tested by personnel viewing through 1¼" bullet proof glass portals.

Reason for Application

Sentences 3.5.2.8.(1) and 3.3.1.1.(2), as interpreted by the Building Official, required a 3 hr. fire separation and he ordered that this be applied to the new construction separating the existing building.

Applicant's Position

Use of this building conforms to Group F Division 3 low hazard industrial occupancy with combustible content less than 100,000 btu/sq.ft. of floor area. Also, this building conforms to Article 3.2.2.47.: 3 storeys; unsprinklered; approximately 16,000 sq.ft. facing two streets. As such, it does not require fire resistance rating in noncombustible construction.

Building Official's Position

An area of the building will be used for testing as many as 10 transformers which contain combustible oils. This area must be separated from the remainder of the building by a 3 hr. fire separation. Housing a larger number of transformers and conducting tests on them is a hazardous operation as referenced by Sentence 3.5.2.8.(1) and should be fire separated in accordance with that Sentence and Sentence 3.3.1.1.(2).

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that this application indicates a sufficiency of compliance with the Ontario Building Code, provided that a central fire detection and alarm system will be installed at the time of occupancy and connected to a central station, and the masonry wall separating the new and the existing buildings be extended to the underside of the new building roof.

The Commission also recommends that an approved fire sprinkler sytem for the buildings be installed as soon as possible.

Reasons

The building in question is a special laboratory for testing of different electrical equipment and materials (e.g. transformers, insulators, lightning arrestors) under the control and supervision of experienced technical personnel.

KYNAR JACKETED
POWER LIMITED CABLES

B.M.E.C. #82-19-57
14 April 1983

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980

AND IN THE MATTER OF an application by Northern Telecom Canada Limited, 150 Montreal - Toronto Blvd., Lachine, Quebec H8S 1B6 on the subject of the use of Kynar fluoropolymer jacketed power limited circuit cables in vertical and/or ceiling spaces used as plenums without conduit.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter, subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant and/or his agent at the above address, withdraw this authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. This authorization is not to be used as an endorsement of any product or system for promotional or advertising purposes.

3. This authorization does not in any manner warrant or guarantee the successful performance of the subject matter.

4. This authorization is for the applicant only at the above address and is not transferable, and shall be for the system as installed and maintained in accordance with the manufacturer's instructions as submitted with this application. Any revision or change in the Applicant or the materials, use, manufacture of the product or process shall automatically be cause for termination, unless prior approval is granted for the revision or change.

5. This authorization is only valid when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation. All applicab aspects of the Ontario Building Code shall be complied with except as authorized herein.

6. All cables tested to standard UL 910, with a peak obscurity density of not more than 1.0 and a maximum flame spread less than 10.0 feet, are considered equivalent to electrical conductors installed within metallic totally enclosed raceways.

7. Documentation supporting the above criteria from a recognized agency shall be made available upon request by the Chief Building Official.

FIRE ALARM SYSTEM

B.C.C. #82-19-110
15 February 1983

General Description of Project

An existing manufacturing plant, comprising of five separate buildings located on the same property, range in size and shape and are two storeys to four storeys in height.

Reason for Application

Non-compliance with Articles 3.2.4.6. and 6.7.2.1. on fire alarm systems was stated on an Order to Comply issued by the Building Official.

Applicant's Position

Embarking on a voluntary decision to upgrade safety for the entire plant and the surrounding neighbourhood, the plant owner installed pull stations in the remote buildings, with one annunciator panel located at the front entrance of the main office building. To further enhance the system's reliability, an additional pull station was installed in one building within the stairwell exit to the street.

Building Official's Position

Having the remote buildings alarm system annunciate on the main building annunciator panel, and the installation of a pull station within the stairwell constitutes technical non-compliance with the Code. The C.S.A. B222.0 Standard addresses these matters and outlines the requirements.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that this application indicates a sufficiency of compliance with the Ontario Building Code, provided that the pull stations located inside stairwells will be connected separately to the annunciation panel and marked as such, and a site diagram framed under glass be exhibited, attached to the annunciation panel.

Reasons

The Commission considers the installed fire safety features to conform, and by the installed additional features made safer. In addition, all buildings of the plant area are fully sprinklered and the plant maintains an in-house voluntary fire brigade. The brigade is regularly trained by the municipal fire department members.

ELECTROMAGNETIC LOCKING
SYSTEMS FOR EXIT DOORS

B.M.E.C. #82-20-58
14 April, 1983

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980

AND IN THE MATTER OF an application by Balgar Security Products Limited, 534-42 Avenue S.E., Calgary, Alberta, T2G 1Y6, on the subject of Electromagnet Door Locking Devices "MAG-GARD 1500" on Exit and Access to Exit Doors.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter, subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant and/or his agent at the above address, withdraw this authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. This authorization is for the applicant only at the above address and is not transferable, and shall be for the system as installed and maintained in accordance with the manufacturer's instructions. Any revision or change in the Applicant or the materials, use, or manufacture of the product or process shall automatically be cause for termination, unless prior approval is granted for the revision or change.

3. This authorization does not in any manner warrant or guarantee the successful performance of the subject matter, and is not to be used as an endorsement of any product or system for promotional or advertising purposes.

4. This authorization is only valid when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation. All applicable requirements of the Ontario Building Code shall be complied with, except as authorized herein.

5. This authorization is not applicable to a Group F Division 1 occupancy.

6. This authorization shall be used only within those buildings for which all Electromagnet Locking Devices and components can be operated by the building fire alarm system, and shall have a continually monitored central control unit which is manned by "supervisory staff" (see para. 8(c)) at all times the building is occupied. Provision shall be made such that all these devices can be de-energized simultaneously at this central control unit.

7. The complete system of Electromagnet Locking Devices shall be installed and approved in conformance to CAN4-S524-M82, and maintained in conformance to Ontario Regulation 730/81, Fire Code, Section 6.3

Page 2....

8. All Electromagnet Locking Devices shall be de-energized immediately allowing the doors to be opened on,

(a) the actuation of the initial stage of the fire alarm system, or

(b) the actuation of an automatic fire detection or extinguishing system if one is present, or

(c) the manual interruption of the electomagnet circuit by "supervisory staff" as defined in Ontario Regulation 730/81, Fire Code, or

(d) the loss of electrical power controlling the locking device or any fault in the installation.

9. A fire alarm system manual pull station shall be located on the wall at the latch side of the door and within 600 mm (2 ft.) of each door or group of doors allowing free egress and which is equipped with these devices.

10. A legible sign, with 25 mm (1 in.) high by 20 mm (3/4 in.) wide and 5 mm (¼ in.) stroke lettering, shall be permanently mounted and maintained at all times on each door equipped with these devices. Such signs shall be mounted at 1.4 m (4ft. 6 in.) from finished floor to the bottom of such sign and shall state:

EMERGENCY EXIT
UNLOCKED BY FIRE ALARM
OR BY SECURITY SYSTEM

11. Illumination to an average level of at least 100 lx(10 ft. candles) shall be provided by emergency electrical power supply for the central control unit in para. 6 and each pull station in para. 9 and each sign in para. 10.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

AMENDED
#82-20-58
2 May 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Rixson - Firemark (Can.) Ltd.
43 Racine Road
Rexdale, Ontario
M9W 2Z4

ON THE SUBJECT OF:

MAG-GARD FM 1500 Electro Magnetic Locking Devices for exit and access to exit doors.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

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5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This authorization is not applicable to a Group F Division 1 occupancy.

7. This authorization shall be used only within those buildings for which all Electro Magnetic Locking devices and components can be operated by the building fire alarm system, and shall have a continually monitored central control unit which is manned by "supervisory staff" (see para. 9(c)) at all times the building is occupied. Provision shall be made such that all these devices can be de-energized simultaneously at this central control unit.

8. The complete system of Electro Magnetic Locking Devices shall be installed and approved in conformance to CAN 4-S524-M82 and maintained in conformance to Ontario Regulation 730/81, Fire code, Section 6.3.

9. All Electro Magnetic Locking Devices shall be de-energized immediately allowing the doors to be opened on,

   (a) the actuation of the initial stage of the fire alarm system, or

   (b) the actuation of an automatic fire detection or extinguishing system if one is present, and

   (c) the manual interpretation of the Electro Magnetic circuit by "supervisory staff" as defined in Ontario Regulation 730/81, Fire Code, and

   (d) the loss of electrical power controlling the locking device or any fault in the installation.

10. A fire alarm system manual pull station shall be located on the wall at the latch side of the door and within 600 mm (2 ft.) of each door or group of doors allowing free egress and which is equipped with these devices.

11. A legible sign, with 25 mm (1 in.) high by 20 mm (3/4 in.) wide and 5 mm (1/4 in.) stroke lettering, shall be permanently mounted and maintained at all times on each door equipped with these devices. Such signs shall be mounted at 1.4 mm (4 ft. 6 in.) from finished floor to the bottom of such sign and shall state:

EMERGENCY EXIT UNLOCKED BY FIRE ALARM OR BY SECURITY SYSTEM

12. Illumination to an average level of at least 100 lx (10 ft. candles) shall be provided by emergency electrical power supply for the central control unit in para. 7 and each pull station in para. 10 and each sign in para. 11.

DATED AT Toronto this 2nd day in the month of May in the year 1985 for authorization # 82-20-58 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

AMENDED
#82-20-58
7 November
1986

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Rixson Firemark
43 Racine Road
Rexdale, Ontario
M9W 2Z4

ON THE SUBJECT OF:

MAG-GARD FM 1500, Electromagnetic locking devices for installation on an exit or access to exit door(s) or emergency access to floor areas.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination unless prior approval is granted for such revision or change by the COMMISSION.

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5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This complete system of Electromagnetic locking devices shall be installed and approved in conformance to CAN 4-S524-M82 and maintained in conformance to Ontario Regulation 730/81, Fire Code, Section 6.3. except as noted in the Building Code or stated herein.

7. Card identifiers and/or microprocessors with or without time delay to a maximum of 15 seconds may be used in addition to this ancillary device of electromagnetic locking device provided that:

   (a) the required sign and lettering have the added words... OR KEEP PUSHING DOOR UNLOCKS IN 15 SECONDS

8. This electromagnetic locking device may be installed on emergency access to floor areas from exit stairs, provided that conformance to the Code and this Authorization are met from the exit stair side of the access to the floor area, as well as from the floor area side of the exit to the stair.

DATED at Toronto this 7th day in the month of November in the year 1986 for authorization # 82-20-58 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

AMENDED
#82-21-59
7 November
1986

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Securitron Magnalock Corp.
1815 W. 205th Street, Suite 105
Torrance, California
U.S.A. 90501

ON THE SUBJECT OF:

Model series 62, Electromagnetic locking devices for installation on an exit or access to exit door(s) or emergency access to floor areas.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination unless prior approval is granted for such revision or change by the COMMISSION.

.../2

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This complete system of Electromagnetic locking devices shall be installed and approved in conformance to CAN 4-S524-M82 and maintained in conformance to Ontario Regulation 730/81, Fire Code, Section 6.3. except as noted in the Building Code or stated herein.

7. Card identifiers and/or microprocessors with or without time delay to a maximum of 15 seconds may be used in addition to this ancillary device of electromagnetic locking device provided that:

   (a) the required sign and lettering have the added words... OR KEEP PUSHING DOOR UNLOCKS IN 15 SECONDS

8. This electromagnetic locking device may be installed on emergency access to floor areas from exit stairs, provided that conformance to the Code and this Authorization are met from the exit stair side of the access to the floor area, as well as from the floor area side of the exit to the stair.

DATED at Toronto this 7th day in the month of November in the year 1986 for authorization # 82-21-59 on behalf of:

BUILDING M ERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980.

AND IN THE MATTER OF an application by Rixson Firemark Canada Limited, 43 Racine Road, Rexdale, Ontario, M9W 2Z4, on the subject of Electromagnetic Door Locking Systems FM62 on Exit and Access to Exit Doors.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter, subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant and/or his agent at the above address, withdraw this authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. This authorization is for the applicant only at the above address and is not transferable, and shall be for the system as installed and maintained in accordance with the manufacturer's instructions. Any revision or change in the Applicant or the materials, use, or manufacture of the product or process shall automatically be cause for termination, unless prior approval is granted for the revision or change.

3. This authorization does not in any manner warrant or guarantee the successful performance of the subject matter, and is not to be used as an endorsement of any product or system for promotional or advertising purposes.

4. This authorization is only valid when in conformance with all other applicable governing legislation. Change in any Code provisions shall be grounds for re-evaluation. All applicable requirements of the Ontario Building Code shall be complied with, except as authorized herein.

5. This authorization is not applicable to a Group F Division 1 occupancy.

6. This authorization shall be used only within those buildings for which all Electromagnetic Locking devices and components can be operated by the building fire alarm system, and shall have a continually monitored central control unit which is manned by "supervisory staff" (see para. 8(c)) at all times the building is occupied. Provision shall be made such that all these devices can be de-energized simultaneously at this central control unit.

Page 2....

7. The complete system of Electromagnetic Locking Devices shall be installed and approved in conformance to CAN 4-S524-M82 and maintained in conformance to Ontario Regulation 730/81, Fire Code, Section 6.3.

8. All Electromagnetic Locking Devices shall be de-energized immediately allowing the doors to be opened on,

(a) the actuation of the initial stage of the fire alarm system, or

(b) the actuation of an automatic fire detection or extinguishing system if one is present, or

(c) the manual interruption of the electromagnetic circuit by "supervisory staff" as defined in Ontario Regulation 730/81, Fire Code, or

(d) the loss of electrical power controlling the locking device or any fault in the installation.

9. A fire alarm system manual pull station shall be located on the wall at the latch side of the door and within 600 mm (2 ft.) of each door or group of doors allowing free egress and which is equipped with these devices.

10. A legible sign, with 25 mm (1 in.) high by 20 mm (3/4 in.) wide and 5 mm (¼in.) stroke lettering, shall be permanently mounted and maintained at all times on each door equipped with these devices. Such signs shall be mounted at 1.4 m (4ft. 6in.) from finished floor to the bottom of such sign and shall state:

EMERGENCY EXIT
UNLOCKED BY FIRE ALARM
OR BY SECURITY SYSTEM

11. Illumination to an average level of at least 100 lx (10 ft. candles) shall be provided by emergency electrical power supply for the central control unit in para. 6 and each pull station in para. 9 and each sign in para. 10.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

Amendment to
B.M.E.C #82-21-59
as of
16 May 1984

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Securitron Magnalock Corp.
1815 W. 205th Street, Suite 105
Torrance, California, U.S.A.
CA90501

ON THE SUBJECT OF:

Model 62 Series Electro Magnetic Locking Devices for exit and access to exit doors.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however, it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/....

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This authorization is not applicable to a Group F Division 1 occupancy.

7. This authorization shall be used only within those buildings for which all Electro Magnetic Locking devices and components can be operated by the building fire alarm system, and shall have a continually monitored central control unit which is manned by "supervisory staff" (see para. 9(c)) at all times the building is occupied. Provision shall be made such that all these devices can be de-energized simultaneously at this central control unit.

8. The complete system of Electro Magnetic Locking Devices shall be installed and approved in conformance to CAN 4-S524-M82 and maintained in conformance to Ontario Regulation 730/81, Fire Code, Section 6.3.

9. All Electro Magnetic Locking Devices shall be de-energized immediately allowing the doors to be opened on,

   (a) the actuation of the initial stage of the fire alarm system, or

   (b) the actuation of an automatic fire detection or extinguishing system if one is present, or

   (c) the manual interruption of the Electro Magnetic circuit by "supervisory staff" as defined in Ontario Regulation 730/81, Fire Code, or

   (d) the loss of electrical power controlling the locking device or any fault in the installation.

3/...

10. A fire alarm system manual pull station shall be located on the wall at the latch side of the door and within 600 mm (2 ft.) of each door or group of doors allowing free egress and which is equipped with these devices.

11. A legible sign, with 25 mm (1 in.) high by 20 mm (3/4 in.) wide and 5 mm (¼in.) stroke lettering, shall be permanently mounted and maintained at all times on each door equipped with these devices. Such signs shall be mounted at 1.4 mm (4ft. 6in.) from finished floor to the bottom of such sign and shall state:

EMERGENCY EXIT
UNLOCKED BY FIRE ALARM
OR BY SECURITY SYSTEM

12. Illumination to an average level of at least 100 lx (10 ft. candles) shall be provided by emergency electrical power supply for the central control unit in para. 7 and each pull station in para. 10 and each sign in para. 11.

DATED at Toronto this 16TH day in the month of MAY in the year 1984 for authorization # 82-21-59 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

T B Newby

T.B. Newby, Vice Chairman

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#83-1-60
20 October 1983

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Mobile Recycle Company
R.R. #3
Guelph, Ontario
N1H 6H9

ON THE SUBJECT OF:

Kitchen exhaust and filtration system with or without heat reclaim unit for supply return air make up to kitchen area only.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/...

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. The kitchen exhaust duct beyond the fire damper located on the exhaust side of the filtered unit may be installed in accordance with the Ontario Building Code 6.2.4. when it passes directly to atmosphere and not through any fire separation.

7. Installation and maintenance shall comply with the application and proposal dated 5 May 1983 as submitted by the applicant titled, "Specification Filtration and Energy Systems also Installation, Operation and Maintenance Manual for Energy Recovery System".

8. The tempered supply return air duct system shall be installed in accordance with the Ontario Building Code Subsection 6.2.4. and discharge only to the kitchen area. There shall be a fire damper in this supply return air duct at the reclaim unit.

9. Where a heat reclaim unit is used with gas fired kitchen cooking equipment, the heat reclaim unit shall have separate air streams for the exhaust to outside of the building and the make up air system to only the kitchen area.

10. This authorization does not include any gas or liquid fired make up air units, any such units may be separately approved by the Fuels Safety Branch.

DATED at Toronto this 20 day in the month of OCT in the year 83 for authorization # 83-1-60 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

R. Weir

R. Weir, Chairman

PLASTIC PIPING INSIDE FIRE SEPARATIONS

B.C.C. #83-1-111
21 April 1983

General Description of Project

At an existing two storey motel, construction of a new addition, with several suites and a residence for the owner, was approved and the owner began building.

Reason for Application

The Building Official issued an order to comply with Article 9.10.9.26. because combustible plumbing piping had been installed inside the fire separations.

Applicant's Position

The applicant had contracted out the installation of the plumbing and this piping was installed between adjacent suites inside of the partitions. As additional fire protection the applicant proposed to install mineral wool batts inside all of the walls.

Building Official's Position

Article 9.10.9.19. requires that adjacent suites be separated by a fire separation having a fire resistance rating of at least 3/4 hr. Combustible drain, waste and vent piping is prohibited by Article 9.10.9.26. when it is located within or passes through a fire separation. The OBC does not accept alternatives especially where there is no approved test data to substantiate the claim of additional fire protection.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code COmmission that this application, regarding the use of combustible drainage pipes in the construction of the plumbing system, does not meet the requirements of Article 9.10.9.26.

Reasons

(1) Article 9.10.9.26. is very precise and explicit in the use of combustible drainage piping.

(2) Intent of the Code is to protect the life safety of the public.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

AMENDED
#83-2-61
13 December 1984

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Sparfil International Inc.
5 Veronica Street
P.O. Box 235
Cobourg, Ontario
K9A 4K5

ON THE SUBJECT OF:

Sparfil Wall System, a building block manufactured from expanded polystyrene beads, combined with portland cement, fine sand and chemical additives which, with surface bonding cement/mortar applied to the surface of all exposed faces of the dry stacked "Sparfil Block" is in lieu of conventional cement mortar and block.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/...

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. Except as authorized herein all applicable requirements of the Ontario Building Code Act and Ontario Regulation 583/83 shall be met. A copy of this authorization shall be attached to the application for a building permit and a copy shall be kept and maintained on the site of the construction as per Code requirements.

7.(a) The Sparfil Wall System may be used in buildings under Parts 3 and 9 of O.B.C., except it shall not be used as loadbearing in noncombustible construction. This system shall not be permitted for use in fire or cavity walls, columns, chimneys or as fire stopping in any type of construction.

(b) Loadbearing elements shall be further restricted to seismic zones 0 and 1 except for Part 9 buildings conforming to subsection 9.4.6. of the Ontario Building Code.

8. An architect or professional engineer shall be responsible for the design, details and general review during construction of the Sparfil Wall System and all construction documents shall be duly sealed, for

(a) each use of the system, and

(b) after exposure to any fire condition.

9. SPARFIL TECH SHEETS 1, 2, 3 and 4 dated 7 June 1982, shall be the only technical sheets included in this authorization and the Sparfil "Design Manual dated 13 May 1983" shall also contain these TECH SHEETS 1, 2, 3 and 4. The WARRANTY disclaimer on these TECH SHEETS shall be eliminated from all previous and any further literature as a condition of the authorization.

10. Site control procedures for protection and installation shall be carefuly followed as per Sparfil TECH SHEETS 1, 2, 3 and 4, dated 7 June, 1982.

11. Inspection of masonry construction shall be carried out to ensure that construction is consistent with design details and specifications and in compliance with Sparfil TECH SHEETS 1, 2, 3 and 4, dated 7 June, 1982. Such inspection shall be carried out by the architect or professional engineer responsible for its design or by another person qualified in the inspection of masonry construction and who is responsible to the design architect or professional engineer.

12. Based on an average of five tests Sparfil Blocks shall have the following minimum unit compressive strength based on gross area ...

Normal Block Size	MPA	psi
200 mm x 200 mm x 400 mm (8" x 8" x 16")	2.2	320
250 mm x 200 mm x 400 mm (10" x 8" x 16")	1.8	260
300 mm x 200 mm x 400 mm (12" x 8" x 16")	1.6	230

13. Surewall ® surface bonding cement/mortar shall meet the Standard Specification ASTM C887-79a. Bonding adhesive shall be as supplied by Sparfil with solid contents in the order of 45-50%, this is a liquid polymer dispersion mixed into the second Surewall ® coat in a two coat application where required.

LIMITATION:

14. Subject to the above paragraph 1 this authorization shall be further limited to buildings using Sparfil Wall System for which a permit is applied for prior to 31 December, 1986, however, Sparfil International Inc. may by written registered letter to this Commission request an amendment to this paragraph at least three months before that date.

DATED at Toronto this 13 day in the month of DECEMBER in the year 1984 for authorization # 33-2-64 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ontario Ministry of Housing

Building Code Commission

Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDMENTS TO AUTHORIZATION

B.M.E.C. #83-2-61
7 November 1986

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF authorization:

TO: Sparfil International Inc.
840 Division Street, Box 626
Cobourg, Ontario
K9A 4L3

ON THE SUBJECT OF:

Sparfil Wall System

SHALL BE AMENDED AS FOLLOWS:

Paragraph 14 shall now read
"...to 31 December 1989..."

REASONS:

To gain further field experience for future evaluation of the system.

MOVED AND ADOPTED THIS 7th DAY OF NOVEMBER, 1986 BY THE BUILDING MATERIALS EVALUATION COMMISSION.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#83-3-62
20 October 1983

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:
547941 Ontario Limited
Climatizer Insulation
10 Melford Drive
Scarborough, Ontario
M1B 2G1

ON THE SUBJECT OF:

Cellulose fiber loose fill thermal insulation as applied to horizontal surfaces in Part 9 buildings of the Ontario Building Code.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/...

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. The applicable standard to be used for this cellulose fiber insulation shall be the 51-GP-60M April 1979 as published by the Canadian Government Specifications Board.

7. On the commencement of each installation a valid C.M.H.C. Evaluation Report Number shall be attached to the label referenced in paragraph 6.2 of the C.G.S.B. Standard 51-GP-60M April 1979, along with a suitable label indicating the applicators name and address. All of these labels shall be posted to a roof structural member beside the attic hatch or entrance.

8. Where cellulose insulation is installed, the following other requirements must comply:

(a) protection around recessed ceiling light fixtures (pot lights) and exhaust fans shall comply with Ontario Hydro regulations and bulletins;

(b) firestop spacer and radiation shields shall be installed at the ceiling in accordance with the appropriate standards for gas vents and factory-built chimneys.

3/...

9. The manufacturer shall allow entry to the office, processing plant and warehouse by any of those agencies as mentioned in the above paragraph number 7, as well as Consumer and Corporate Affairs, in order to conduct inventory audits and take samples of products of production and those in storage. Any discrepancy in product quality which may necessitate either a product re-call or the de-certification of the manufacturer must be immediately made known by registered mail to all those agencies in paragraphs 6 to 9 also the applicable Municipalities and the Building Materials Evaluation Commission.

DATED at Toronto this 20TH day in the month of OCT in the year 1983 for authorization # 83-3-62 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

R. Allen

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

TERMINATION OF AUTHORIZATION

B.M.E.C. #83-3-62
20 October 1983

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980

AND IN THE MATTER OF AUTHORIZATION TO:

Climatizer Insulation
(547941 Ontario Limited)
10 Melford Drive
Scarborough, Ontario
M1B 2G1

ON THE SUBJECT OF:

Cellulose Fibre Insulation

SHALL BE TERMINATED AS FOLLOWS:

Subject to paragraph one and five of the Authorization, no further installations shall be made as of the date of this termination.

REASONS:

The newly amended Ontario Building Code, Ontario Regulation 419/86, becomes effective on 20th October 1986 and the subject matter is now included in Article 8.26.3.3., therefore there is no need for a B.M.E.C. authorization.

MOVED AND ADOPTED THIS 7 November 1986 BY THE BUILDING MATERIALS EVALUATION COMMISSION

PROTECTION OF OPENINGS BETWEEN STOREYS

B.C.C. #83-3-113
22 April 1983

General Description of Project

A highrise apartment addition is proposed to be built over an existing two storey building. The first storey of the existing building is connected to the second storey by an open staircase which is not a required exit.

Reason for Application

The Building Official has indicated that the existing building shall be required to be sprinklered in accordance with Clause 3.2.6.6.(1)(d) and Sentence 3.1.7.4.(4).

Applicant's Position

The Ontario Building Code is not applicable to those portions of an existing building that are not involved in alterations and do not present an increased fire hazard. Adding the highrise portion over the existing building will not change or add to any existing hazard, since the existing building is a noncombustible structure with a fully sprinklered basement. However, the open stair and corridor is separated by an unrated wired glass and door assembly to the second floor public corridor.

Building Official's Position

The existing portion of the building must be sprinklered because some construction is proposed on the subject floors and fire compartments not exceeding 15,000 sq.ft. have not been provided.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that this application indicates a sufficiency of compliance with Ontario Regulation 925/75, subject to a permanent fire separation between the elevator lobby and the existing stairwell No. 6 at the roof level.

Reasons

The Commission finds nothing in the Building Code or Act that makes it applicable to those parts of an existing building that are not involved in alteration.

The existing occupancy does not present any increase in hazard.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION #83-4-63
BY THE 22 March 1984
BUILDING MATERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

NRD Div. Mark IV Ind.
2937 Alt Blvd. No.
Grand Island, N.Y., U.S.A
14072

AGENT:

Medgar Sales Ltd.
361 Jackson St. West
Hamilton, Ontario
Canada
L8P 1N2

ON THE SUBJECT OF:

Self luminous exit sign, PERM-EX tm NRD Model #T4001 catalog no. P-160R or P160 S-R series.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/.....

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This AUTHORIZATION is only valid when the applicant and/or his agent complies with the Atomic Energy Control Board letter dated 8 August 1981 file 15-1-8647 with the Radioistope Licence Number 5-8647-85 and any future renewals of same. Copies of this B.M.E.C AUTHORIZATION and the above A.E.C.B. licence shall accompany each sign or group of signs to any one building.

7. This AUTHORIZATION may be used for all new or existing buildings for which a building permit is required.

8. This PERM-EX sign is exempted from the requirement of the Ontario Building Code that requires connection to an electrical circuit separate from other electrical circuits and illumination by emergency power supply where required also letter colouring.

9. Installation and maintenance shall also comply with the "Instruction Manual for NRD Model T-4001 self-luminous Exit Sign (c809123)" and a copy shall be supplied with each sign or group of signs to any one building. The sign and bracket shall be securely anchored to the structure of the building with tamper-resistant mounting hardware.

10. Each sign shall be replaced no later than 12 years from date of manufacture however, the manufacturer and/or his agent shall by written registered letter at least 6 months prior to that expiry date notify each sign recipient and the Chief Fire Official of the Municipality regarding the expiry date, replacement and disposal of each sign.

3/....

11. The manufacturer and/or his agent shall ensure that each sign is clearly and durably labelled with radiation warning and U.L. listing as evidence to the nature, activity, expiry date, manufacturer's date, serial number, manufacturer and agents name and address, and in addition the expiry date shall be either embossed, hot stamped, engraved, molded or similar method by which the expiry date becomes an integral part of this PERM-EX sign. Such labelling shall be mounted on the bottom outside frame of each sign where it will be clearly visible after installation of such sign.

DATED at Toronto this 22nd day in the month of March in the year 1984 for authorization # 83-A-63 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

T. Eldridge, Chairman

WIRED GLASS
AS CLOSURE

B.C.C. #83-4-114
22 April 1983

General Description of Project

Under construction, this new twenty nine storey apartment and condominium will contain a three level underground garage. On the first underground level it is proposed to temporarily erect three model suites.

Reason for Application

Enforcement by the Building Official of the requirements of Article 3.1.7.3.

Applicant's Position

With the application of close spaced sprinklers on both sides of the wired glass, which is mounted in aluminum frames, a significant cooling effect over the fire separation would be provided by these sprinklers should a fire occur in the immediate area. To further enhance the fire safety, the entire first underground garage level and the adjacent basement floor area will be protected with automatic sprinklers.

Building Official's Position

The Building Code permits wired glass only in fixed steel frames and only in 3/4 hr. and 1 hr. fire separations. There is no credit or recognition of sprinklers in conjunction with wired glass in the Code.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that the fire protection measures proposed for the structure under discussion conform with the intent and demonstrates sufficiency of compliance with Ontario Reg. 925/75 (O.B.C.).

Reason

This is based on the sprinkler system proposed in the said submission exhibits No. 4 and 8; sprinklering of the entire structure; and the automatic sprinkler system proposed for the protection of the walls of the model suites. All proposed sprinkler system equipment to be ULC approved and installed in conformance with NFPA #13 and a wetting agent shall be introduced into the sprinkler system.

Further conditions of this approval are:

a) All window frames in the described entrance vestibule and the model suites shall be steel and not aluminum.

b) Secondary exits shall be installed in the model suites, leading to the parking area. All exits shall be identified in accordance with the Building Code.

c) No parking shall be allowed within 40 feet of the external walls of the model suites and control barriers shall be erected.

d) Proof of sufficiency of water flow rate for the sprinkler system shall be established by the applicant and accepted by the Chief Building Official.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

#83-5-64
22 March 1984

AUTHORIZATION
BY THE
BUIILDING MATERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revision Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Alvise de Buzzaccarini
Epsilon Building Materials Ltd.
385 Lynn Avenue
North Vancouver, B.C
V7C 2C4

ON THE SUBJECT OF:

Isoren S4 Thermostucco (scratch coat) and Isoren F acrylic finishing coat to be used on the exterior or interior of buildings as an alternative to stucco.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or gaurantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. The Applicant shall train and approve the necessary applicators who shall strictly follow the manufacturer's recommendations for site protection, substruture materials, mixes, curing, application and location and construction of control joints.

7. Isoren S4 and F may be used either separately or together and/or with other compatible masonry and stucco materials when the appropriate bonding agent for the substructure as recommended by the manufacturer is used.

8. The Isoren Thermostucco System shall not be used as a loadbearing material. The wall sheathing or masonry material to which the Isoren S4 Thermostucco System is applied must be capable of resisting all vertical, lateral and racking shear loads applied to the wall.

9. Isoren S4 in conjuntion with Isoren F shall be considered as a 1 hr fire resistance cladding when the S4 is a minimum of 25.4 mm (1 in) thickness and the F is a minimum of 1.58 m (1/16 in) thickness.

10. Permanant labeling on all containers and/or packages of Isoren S4 and F shall include but not be limited to the following information: Manufacturer's name, product name, quality, storage procedure, shelf life, installation instructions and the name of the recognized independant test agency responsible for the quality control.

11. This AUTHORIZATION is limited to the continuance of a "Certification Program" by a recognized independant test agency providing reports describing ongoing inspections and tests for product quality control. Records shall be kept by the manufacturer on batching, production and site delivery.

DATED at Toronto this 22nd day in the month of MARCH in the year 1984 for authorization # 83-5 - 67 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Thomas Eldridge

T. Eldridge, Chairman

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

EXITS AND FIRE RESISTANCE RATING

B.C.C. #83-5-115
20 June 1983

General Description of Project

An eighty year old three storey house with finished basement, contains six family dwelling units which deviates from permit drawings issued in 1955 indicating a four family dwelling unit.

Reason for Application

The Building Official on 4 February 1983 issued an Order to Comply regarding Ontario Building Code Articles 9.9.7.4. and 9.10.12.3. also Subsection 9.10.18.

Applicant's Position

That the Order to Comply has no validity, nor legality because the Ontario Building Code only came into force on 31 December 1975 and the Code is not applicable to construction prior to that date. Furthermore, the O.B.C. is not a retrofit document and therefore does not apply to existing buildings without current construction. In 1955 an exterior fire escape system was installed together with a few minor doors and partition changes, however, to date no further construction has taken place on this building.

Building Official's Position

With respect to the permit issued on 28 February 1955, the building plans showed the basement not used for human habitation, however, the basement is now being used as a dwelling unit. The building has a non-conforming exit, and openings into the stairway shaft have not been provided with fire rated doors/frames, or self-closing and latching devices, as required for 3/4 hr. fire-resistance rating of the shaft by the O.B.C.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that in regard to application #83-5-115, no construction was performed and no building permits were issued after implementation of the Ontario Building Code. The Order to Comply cannot be enforced by this Commission.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION 83-6-65
BY THE 22 March 1984
BUILDING MATERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Z-Flex Inc.
Division of Flexmaster Canada Ltd.
36 Shelley Road
Richmond Hill, Ontario
L4C 5G3

ON THE SUBJECT OF:

"Z-Flex" a flexible stainless steel liner for masonry chimney

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/...

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This authorization is limited to Ontario Building Code, Part 9 buildings where a building permit is required and where the existing masonry chimney is in a good state of repair and the existing flue size is not less than 305 mm X 305 mm (12 in X 12 in) and where the flue is for the use of solid fuel.

7. Flexmaster shall enclose a copy of manufacturer's recommendations with each on site installation complete with company name, address and telephone number and this shall be left with the building occupant.

8. The stainless steel Z-flex liner shall extend not more than 152 mm (6in) above the top of the masonry chimney and be attached to a stainless steel raincap and chimney flashing with sloping top and formed drip edges extending to minimum of 100 mm (4in) below the top of the masonry chimney which shall be securely attached to the masonry chimney and this whole assembly shall be sealed against the weather.

9. This authorization has been evaluated by the COMMISSION on the basis of the Warnock Hersey Professional Services test report #1, file F1 200-290-0463 May 31, 1983 and #3951, file 490-0086-F86 March 4 to 9, 1983, copies of which may be requested from the Flexmaster by any party related to the installation.

10. Since at the present time there is no available "Standard", this authorization determined that the Z-flex stainless Steel liner did withstand the requirements of "ULC-S629-M1981 standard for 650°C Factory Built Chimneys", however, when the appropriate "Standard" is published Flexmaster shall have Z-flex retested to that "Standard" at which time this authorization shall be required to be amended.

DATED at Toronto this 22 day in the month of MARCH in the year 1984 for authorization # 83-6-65 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

T. Eldridge, Chairman

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

EXITS AND FIRE SEPARATION

B.C.C. #83-6-116
20 June 1983

General Description of Project

The applicant/owner has occupied his offices in both the second and third floors since he purchased this 1600 sq.ft. building in 1973. Tenants who occupied the first and basement floors decided to give up the printing business and the applicant/owner expanded his offices to the first floor and used the basement as a storage area.

Reason for Application

An Order to Comply from the Building Official which cited nonconformance to the Ontario Building Code Subsection 9.10.8. and Articles 9.9.7.4., 9.9.4.2.

Applicant's Position

In January 1982, he undertook repairs to the first floor before moving in his office. This included a new sliding glass door installed in an existing exterior wall opening, removing some interior wood screens and repairing the storefront. However, on September 20, 1982 the Building Official requested additional alterations to the remainder of the building before a permit would be issued. Since no work was undertaken on the remainder of the building it is the opinion of the applicant that the O.B.C. does not apply to those floors.

Building Official's Position

There is not a fire separation between any of the floors (9.10.8.), there is no exit from basement level leading directly to outdoors (9.9.1.1.) and stairs from second and third floors are not enclosed (9.9.4.2.) and do not have two exits (9.9.7.4.). These are contrary to the O.B.C. and should be rectified.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #83-6-116 in the matter regarding the installation of the rear sliding door at the ground level constitutes construction and requires a building permit.

Page 2...

And in lieu of the removed ground floor partition a fire rated door shall be installed at the bottom of the stairwell leading to the second floor.

Reasons

The Commission sees nothing in the Building Code Act that makes the Code applicable to those parts of an existing building that are not involved in the alteration.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#83-7-66
25 April 1984

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Eaton Corporation
1199 S. Chillicothe Rd.
Aurora, Ohio, U.S.A.
44202

AGENT:

Shawflex Inc.
25 Bethridge Rd.
Rexdale, Ontario
M9W 1M7

ON THE SUBJECT OF:

Dekoron ® with Halar fluoropolymer insulated power limited circuit cables in vertical and/or ceiling spaces used as plenums without conduit.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/...

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. All cables tested to standard UL 910, with a peak obscurity density of not more than 1.0 and a maximum flame spread less than 10.0 feet, are considered equivalent to electrical conductors installed within metallic totally enclosed raceways.

7. Documentation supporting the above criteria from a recognized agency shall be made available upon request by the Chief Building Official.

DATED at Toronto this 25 day in the month of APRIL in the year 1984 for authorization # 83-7-66 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSIO

T. Eldridge, Chairman

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

ADDITIONAL SPRINKLERS
FOR HIGH BUILDING

B.C.C. #83-7-117
21 June 1983

General Description of Project

An eight storey, 56 units apartment building was converted to a full service seniors' apartment, the ground floor was designated as office for the administrator and lounge area, a new one storey addition to this area was constructed to serve as the kitchen and dining room.

Reason for Application

Ontario Building Code Clause 3.2.6.6.(1)(b) when applied to the new one storey addition required the space to be sprinklered.

Applicant's Position

The area in dispute is the Kitchen/Dining and Lounge rooms which provide a food service for the residents of this seniors' apartment and their guests. This service is not for sale to the general public and access to this area is controlled through the lobby making it inaccessible to the public. Furthermore, zoning and Committee of Adjustment approval for the new construction was granted on the clear understanding that the area would serve the residents and their guests and not the general public.

Building Official's Position

The O.B.C. clearly defines a restaurant in Part 1. This new building addition plus the incorporation of a portion of the existing main floor is indeed for the sole purpose of a restaurant. Since all restaurants located within a high rise building must be sprinklered, therefore the area in dispute must be sprinklered.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission regarding application #83-7-117 that the dining facility is not a restaurant within the requirements of Clause 3.2.6.6.(1)(b).

Reasons

The Applicant has demonstrated that this is a private facility available to the residents of the building under a contractual lease agreement.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

TRAVEL DISTANCE TO A SINGLE EXIT

B.C.C. #83-8-118
21 June 1983

General Description of Project

A new two storey building was constructed with one exit which served 2,575 sq.ft. of floor area in a Group D Occupancy.

Reason for Application

9.9.9.1.(2) which is a Sentence in the Ontario Building Code, requires one exit where the building area does not exceed 1,500 sq.ft. The building area in question has 2,575 sq.ft. and was constructed with only one exit.

Applicant's Position

The built-in life-safety provisions are of a high standard and should satisfy the O.B.C. requirements for one exit. For example: The occupant load is about 22 persons, travel distance is less than 75 ft., the entire building is sprinklered, emergency lighting and smoke detectors are provided. These and other features of construction more than meet the intent of the O.B.C. in the opinion of the Applicant.

Building Official's Position

The alternative life safety provisions provided in this building are indeed favourable; however, "trade offs" should not be made to this requirements of having a second exit especially in light of the use of this building.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that application #83-8-118, does not meet the requirements of Sentence 9.9.9.1.(2).

Reasons

The O.B.C. requirements are explicit and precise in this matter.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

PLASTIC PIPING IN HIGH RISE BUILDING

B.C.C. #83-9-119
22 June 1983

General Description of Project

A newly constructed seven storey residential apartment building classified under Article 3.2.2.28. of the Ontario Building Code as non-combustible construction.

Reason for Application

Plastic piping was installed within a non-combustible building; this piping does not meet the flame spread rating of not more than 25 and the smoke development of not more than 50.

Applicant's Position

ABS plastic piping is connected to copper pipe which is inside the walls, therefore what is left is about three feet of pipe and a trap made of ABS plastic which is inside the kitchen cupboards that are made of wood and plastic trim. This does not make sense to outlaw a short piece of plastic piping when all kinds of wood and plastic is used within each apartment.

Building Official's Position

Some combustible elements are permitted in buildings required to be of non-combustible construction and these are listed under Article 3.1.4.5. of the Ontario Building Code. However, Sentence (5) of the same Article addresses the flame spread/ smoke development of combustible piping such as ABS which does not meet these requirements.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that application #83-9-119 in the matter regarding the eight storey non-combustible apartment building, does not conform with the intent of the Ontario Building Code Ontario Regulation 720/81 and must comply with Sentences 3.2.2.28.(2) and 3.1.4.5.(5).

Reasons

The building in question is classified as non-combustible and under Sentence 3.2.2.28.(2) the building shall be of non-combustible construction.
And Sentence 3.1.4.5.(5) describing the flame spread and smoke development of the used ABS pipes, does not meet the specified rating.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

TYPE OF
EXIT FACILITY

B.C.C. #83-10-120
22 June 1983

General Description of Project

An historic stone church building with seating for 650 persons has three exits and a turret structure originally built in one corner which was used as baptistry with only an interior door that swings out of the turret area toward the church seating area.

Reason for Application

A new exterior door swinging inward was constructed in the exterior wall of the turret which is to be used by handicapped persons for direct egress by a ramp to the parking lot. (O.B.C. 3.4.8.15.(6)).

Applicant's Position

The ramp from the parking lot slopes down toward this new exterior door. The general consensus of all parties was that this new door was not a required exit door and it would be more convenient to swing inwards. Further, the baptistry was taken out of the turret area to allow free egress of this new door.

Building Official's Position

Every exit door shall open in the direction of exit travel and because the door swings inward panic hardware cannot be applied. The existing three doors are more than enough to be exit doors and they are equipped with panic hardware, however some people other than the handicapped are now using this new door.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #83-10-120, indicates that the two doors in the turret area are not required exit doors.

Reasons

The existing three exit doors provide the required exit width.

Ontario
Ministry of Municipal Affairs and Housing

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

REQUIREMENTS FOR FIRE SAFETY

B.C.C. #83-11-121
23 November 1983

General Description of Project

An existing six storey and basement building composed of exterior load bearing masonry walls with interior heavy timber column and beam structure was constructed around the turn of the century as an industrial warehouse with retail commercial at the lower floors.

Reason for Application

Article 3.2.2.27. requires that a residential building of six storeys in height be constructed of non-combustible construction.

Applicant's Position

The proposal is to convert the top four floors to a variety of apartment types and the bottom three floors for retail and commercial purposes. All existing wooden floors will receive 2" light weight concrete while all the wooden beams and columns will be protected with fire rated drywall. The windows on the north side which is on the property line will be blocked up on the first three floors, however, the top four floors will be glazed with georgian wired glass and appropriate sprinkler heads located at each window. Further, the entire building will contain sprinklers, fire hose cabinets, fire detectors, fire alarms, emergency lights and pull stations.

Building Official's Position

With respect to Article 3.2.2.27. and Subsection 3.2.9. neither allows nor contains provisions that a residential building of six storeys in building height be constructed on non-combustible materials or a change of occupancy to residential usage. The proposed Part XI of the O.B.C. does address the matter of conversion to residential use and the windows on the property line and protection of combustible elements within a building, however a permit cannot be issued until Part XI comes into force which is probably the summer of 1984.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that this application demonstrates sufficiency of compliance with the Ontario Building Code based on the protection of existing combustible construction and the window sprinkler system.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

REQUIREMENTS FOR FIRE SAFETY

B.C.C. #83-12-122
22 December 1983

General Description of Project

This existing combustible Group "E" Mercantile building is a 1½ storey structure plus a basement (910 m^2) which is used mainly for storage. The ground floor (910 m^2) is all retail store area while the second floor (210 m^2) comprises staff facilities.

Reason for Application

O.B.C. Regulation 583/83 Sentence 3.2.2.7.(3) requires every cellar exceeding 300 m^2 in floor area to be sprinklered and Clause 3.2.2.34.(2)(a) requires basements to be subdivided into areas not exceeding 300 m^2 or they shall be sprinklered.

Applicant's Position

The existing basement is proposed to be converted by a 1 hr. fire separation into approximately 455 m^2 unsprinklered retail area with a new enclosed convenience stair in the centre of the floor area connecting this part of the basement to the ground floor, a domestic sprinkler system will cover the remaining basement stockroom area of 279 m^2, however 176 m^2 of the basement which is boiler, electrical and washroom will have only a new detection and fire alarm system which will be installed throughout the entire building with annunciator panel at the main egress doors on the ground floor. It is the applicant's belief that the proposed alterations and other upgrading measures improve an existing condition while ensuring fire and life safety of the entire building occupants.

Building Official's Position

Sprinklering of the cellar (basement) must be installed to conform to Sentence 3.2.2.7.(3) or subdivided in areas conforming to Clause 3.2.2.34.(2)(a).

Commission Ruling

In favour of the Building Official, it is the decision of the Building Code Commission that application #83-12-122 does not conform with the intent of the Ontario Building Code.

Reasons

The requirements of the Ontario Building Code are quite explicit and precise with respect to subdividing or sprinklering of this matter.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

REQUIREMENTS FOR EXITS

B.C.C. #83-13-123
22 December 1983

General Description of Project

An existing strip plaza contained a two storey unit with basement which was tenanted by a Chiropractic Clinic on the first floor and basement.

Reason for Application

Sentence 3.4.1.1.(1) requires exit facilities from every floor area to be provided to a public thoroughfare or to a suitable open space with access to a public thoroughfare.

Applicant's Position

The existing basement use was changed from storage area to X-ray facilities, staff lunch room, staff and public washrooms, however the one exit leads through the lobby and waiting room. The entire building has been upgraded by installing smoke and heat detectors on first, second and basement floors also fire extinguishers in all areas.

Building Official's Position

The revised permit drawings provided a protection exit from the basement complying with 3.4.1.1.(1) for an exit and 3.4.5.1.(1) separation of an exit by 3/4 hr. fire separation from the remainder of the building, however site construction does not reflect the approved permit drawings.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that application #83-13-123 in the matter regarding the Chiropractic Clinic does not meet the requirements of the Ontario Building Code. The approved permit drawings do reflect the intent of the Code.

Reasons

The code is quite specific in the matter of requirements for exits.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

ELEVATOR VESTIBULES AND ATRIUM

B.C.C. #83-14-124
2 February 1984

General Description of Project

A new multi storey twin tower office building to be constructed with one tower being approximately 24 storeys and one tower of 5 storeys interconnected with an atrium.

Reason for Application

Sentence 3.2.9.4(1) of the Ontario Building Code (O.Reg. 583/83) requires that in buildings containing an atrium, the elevators be protected by vestibules at the levels containing the atrium or at all levels above the atrium.

Applicant's Position

In lieu of providing vestibules for the elevators these floor areas will be separated from the atrium by tempered glass with close spaced sprinklers on the floor area side of the tempered glass and at the ceiling of the atrium. The smoke control systems for exhausting the atrium and pressurizing the elevator shaft will be tested to ensure smoke is not drawn into the elevators when the systems are in operation.

Building Official's Position

The Ontario Building Code does not permit alternate solutions to vestibules for elevators, however more detailed development of this proposal may better address the problem at a future hearing.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that application #83-14-124 does not adequately demonstrate conformance with O.B.C regulation 583/83.

Reasons

The proposal to glaze the atrium in lieu of elevator vestibules does not demonstrate equivalence of the required one hour fire rated vestibule protection of the elevators.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

FASTENINGS ON EXIT DOOR

B.C.C. #83-15-125
2 February 1984

General Description of Project

A new lobby and front entrance was proposed for an existing one storey office, showroom and plant area used for warehousing and display of all types of hard and soft covered books.

Reason for Application

Sentence 3.4.8.15.(13) of the Ontario Building Code, Revised Regulation of Ontario 87-1980 requires fastenings on required exit doors to be readily opened from inside without the use of keys.

Applicant's Position

The new front lobby egress doors have a thumb turn located in the bottom rail of these glass doors which is "readily opened" and requires no special knowledge in the use of such doors.

Building Official's Position

The front exit door leading from the lobby to the exterior is equipped with a thumb turn device located at the base of the door leaf and this present position cannot be considered readily openable.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #83-15-125 regarding exit door locking device for the lobby meets the requirements of the Ontario Building Code.

Reasons

Sentence 3.4.8.15.(13) of the O.B.C. does not specify any specific location.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

FASTENINGS ON EXIT DOOR

B.C.C. #83-16-126
2 February 1984

General Description of Project

An existing five storey office building made renovations to the second floor office which included new glass exit doors for the entrance of this office.

Reason for Application

Sentence 3.4.8.15.(13) of the Ontario Building Code, Revised Regulation of Ontario 87-1980 requires fastenings on required exit doors to be readily opened from inside without the use of keys.

Applicant's Position

This office suite has two exits, both of which connect to the buildings code-complying exit system, however, the main exit door is of tempered glass with a thumb turn lock located in the conventional method for these standard glass doors.

Building Official's Position

The access to exit glass doors leading from the tenant occupied space to the public corridor and equipped with thumb turn latching device at the bottom of the door is not considered to be readily openable.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #83-16-126 regarding exit door locking device for the lobby meets the requirements of the Ontario Building Code.

Reasons

Sentence 3.4.8.15.(13) of the O.B.C. does not specify any specific location.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #83-17-127
14 March 1984

SPECIAL STRUCTURE

General Description of Project

A proposed new twelve storey office building is to contain several atrium spaces varying between interconnecting ground floor and fourth floor, however, a clock tower will extend the fourth floor to an overall height of 96 m above grade and the observation deck will be located at the top of this tower.

Reason for Application

Article 3.2.9.2. requires interconnected floor spaces be of sufficient size to contain a cylinder of at least 9 m in diameter also the observation deck is required to have two exits as per Sentence 3.4.2.1.(2), while Sentence 3.2.5.4.(28) and (29) require a water storage reservoir for the standpipe system when a building exceeds 84 m in height.

Applicant's Position

The purpose of the 9 m cylinder is to allow dilution of smoke but not to create a stack effect. While the space in question is about a metre short of the requirement, it is almost twice the area and would not create a stack effect. The observation deck is served by an elevator and one exit stair which are 2 hr fire separated and the entire clock tower structure will be of noncombustible construction, fully sprinklered and contain fire hoses. On the basis of the small area and construction of the Clock Tower it is proposed to measure the height of this building from grade to the ceiling level of the penthouse for the twelve storey portion. This would be 67.5 m which would not necessitate the use of a water storage reservoir on top of the Clock Tower.

Building Official's Position

While the Code does not directly permit these matters it may be contended that this building is a special structure. Given the nature and areas of construction the proposal may meet the intent of the Code however, the Building Official cannot allow discretion.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #83-17-127 sufficiently complies with the Code.

2/...

Reasons

The Commission considers the Clock Tower a special structure and the applicants' proposals for protection against fire spread and the use of good fire protection engineering practice will allow the acceptance of one stair in the tower and the use of one water supply without a water reservoir. The Commission also feels the atria more than meet the intent of the Building Code.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

EXITS FROM FLOOR AREAS

B.C.C. #83-18-128
14 March 1983

General Description of Project

A newly constructed private 3 car garage with two side walls and the rear wall buried into the embankment contained only three rolling overhead garage doors.

Reason for Application

Article 9.9.7.6. requires an exit from the building and Article 9.9.6.9. requires an exit door to swing on a vertical axis.

Applicant's Position

There are no interior walls or partitions within the garage and the rolling overhead doors cannot be fitted with a man door and there is no wall space between such overhead doors however, the overhead doors are spring loaded to fully open and a highly visible large lever handle clearly labelled with both "exit" and "pull" sign are permanently mounted on each door beside the lever handle.

Building Official's Position

There is no discretion for a building official to allow such a rolling overhead to be used as an exit door which is required to swing on a vertical axis.

Commission Ruling

In favour of the Applicant. The decision of the Building Code Commission is that application #83-18-128 sufficiently complies with the Code.

Reasons

The Building Code Commission has satisfied itself that due to the specific use and occupancy of the building the egress is adequate.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION #84-1-67
BY THE 3 May 1984
BUILDING MATERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Allied Corporation
(Engineered Plastics Division)
P.O. Box 2332R
Morristown, N.J, U.S.A
07960

ON THE SUBJECT OF:

Halar® E-ctfe (#300, 500 & 901) fluoropolymer insulated jacketed power limited circuit cables in vertical and/or ceiling spaces used as plenums without conduit.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or quarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/....

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. All cables tested to standard UL 910, with a peak obscurity density of not more than 1.0 and a maximum flame spread less than 10.0 feet, are considered equivalent to electrical conductors installed within metallic totally enclosed raceways.

7. Documentation supporting the above criteria from a recognized agency shall be made available upon request by the Chief Building Official.

DATED at Toronto this 3RD day in the month of MAY in the year 1984 for authorization # 84-1-61 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

T. Eldridge, Chairman

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

PUBLIC CORRIDOR SEPARATION

B.C.C. #84-1-129
28 June 1984

General Description of Project

A newly constructed eleven storey office building completed the base building however, a separate permit was taken out for a single tenant on the fourth floor.

Reason for Application

O.B.C. 3.4.2.2.(1)(a) states "... a public corridor serving more than one tenant ..." however, the floor in question has only a public lobby served by a single tenant.

Applicant's Position

The code states spatial separation between exit stairs (minimum 30 ft.) in a public corridor which has the walls extended from slab to slab, it should not matter if the corridor serves only a single tenant so long as the corridor is accessible and used by the public at any time.

Building Official's Position

A corridor is no synonymous with lobby and the code requires a public corridor to serve more than one tenant. The gravity smoke exhaust system of this building is through the lobby however, if the walls are constructed from slab to slab a duct should be extended into the tenant floor area.

Commission Ruling

In favour of the Applicant. The public corridor (lobby) shall be separated from the fourth floor area by a fire separation and a transfer grille with fire damper shall be installed in the corridor wall to the tenant area.

Reason

By definition this lobby is a public corridor and the transfer grill with fire damper will maintain separation and smoke control.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#84-2-68
3 May 1984

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

James A.Ryder Manufacturing Limited
241 Arvin Avenue
Stoney Sreek, Ontario
L8E 2L9

ON THE SUBJECT OF:

Model SC-liner a stainless steel liner for masonry chimney.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/...

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This authorization is limited to Ontario Building Code, Part 9 buildings where a building permit is required and where the existing masonry chimney is in a good state of repair and where the flue is for the use of solid fuel.

7. James A. Ryder shall enclose a copy of manufacturer's recommendations with each on site installation complete with company name, address and telephone number and this shall be left with the building occupant.

8. The stainless steel SC-liner shall extend not more than 152 mm (6in) above the top of the masonry chimney and be attached to a stainless steel raincap and chimney flashing with sloping top and formed drip edges extending to minimum of 100 mm (4in) below the top of the masonry chimney which shall be securely attached to the masonry chimney and this whole assembly shall be sealed against the weather.

9. This authorization has been evaluated by the COMMISSION on the basis of the U.L.C File CMH1086 February 29, 1984, guide #60 13.17, which requires the U.L.C label or listed marking on the product for identification under the Listing and Follow-Up Service.

10. Since at the present time there is no available "Standard", this authorization determined that the model SC-liner stainless steel did withstand the requirements of "ULC-S629-M1981 standard for 650°C Factory Built Chimneys", however, when the appropriate "Standard" is published James A. Ryder shall have SC-liner retested to that "Standard" at which time this authorization shall be required to be amended.

DATED at Toronto this 3RD day in the month of MAY in the year 1984 for authorization # 84-2-65 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSI

T. Eldridge, Chairman

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

KIOSKS IN COVERED MALL

B.C.C. #84-2-130
28 June 1984

General Description of Project

An existing two storey shopping mall has two small kiosks located under the escalators and a very large planter between the escalators and kiosks.

Reason for Application

O.B.C. Clause 3.2.3.13.(1)(ii) places a limit on a group of kiosks not to exceed 46 m^2 in area where the horizontal separation between buildings exceeds 13.5 m.

Applicant's Position

The existing area between the two escalators consists of a planter of shrubs, boulders and five 30 foot high palm trees along with the existing two kiosks, all of which block off all means of egress within the perimeter of that area. None of the adjacent mall corridors would be reduced or affect the existing egress pattern however, the proposed kiosk would be 26m^2 area larger for the group of kiosks. While the existing two kiosks are of combustible construction the proposed kiosk would be non-combustible and all three kiosks would be fully sprinklered.

Building Official's Position

The area of this proposed kiosk combined with the existing two kiosks exceeds the maximum allowed by code for a group of kiosks.

Commission Ruling

In favour of the Applicant. The proposed new kiosk adding to the area of the existing two kiosks area meets the intent of the Code.

Reason

The proposed kiosk will not affect the existing egress pattern in the Mall and life safety conditions are increased by sprinklering of all three kiosks.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#84-3-69
5 Sept. 1984

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Self-Powered Lighting Inc.
8 Westchester Plaza
Elmsford, N.Y. 10523
U.S.A

AGENT:

G.L.E. Inc.
14 Connell Court
Toronto, Ontario
M8Z 1E7

ON THE SUBJECT OF:

Self luminous exit sign, EVERGLO model #710A with white letters on red background.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however, it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/...

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This AUTHORIZATION is only valid when the applicant and/or his agent complies with the Atomic Energy Control Board Radioistope Licence Number 5-8584-85(Rev 2) and any future renewals of same. Copies of this B.M.E.C AUTHORIZATION and the above A.E.C.B. licence shall accompany each sign or group of signs to any one building.

7. This AUTHORIZATION may be used for all new or existing buildings for which a building permit is required.

8. This EVERGLO sign is exempted from the requirement of the Ontario Building Code that requires connection to an electrical circuit separate from other electrical circuits and illumination by emergency power supply where required, also letter colouring.

9. Installation and maintenance shall also comply with the manufacturer's instructions and a copy shall be supplied with each sign or group of signs to any one building. The sign and bracket shall be securely anchored to the structure of the building with tamper-resistant mounting hardware.

10. Each sign shall be replaced no later than 12 years from date of manufacture, however, the manufacturer and/or his agent shall by written registered letter at least 6 months prior to that expiry date notify each sign recipient and the Chief Fire Official of the municipality regarding the expiry date, replacement and disposal of each sign.

3/....

11. The manufacturer and/or his agent shall ensure that each sign is clearly and durably labelled with radiation warning and U.L. listing as evidence to the nature, activity, expiry date, manufacturer's date, serial number, manufacturer and agents name and address, and in addition the expiry date shall be either embossed, hot stamped, engraved, molded or similar method by which the expiry date becomes an integral part of this EVERGLO sign. Such labelling shall be mounted on the bottom outside frame of each sign where it will be clearly visible after installation of such sign.

DATED at Toronto this 5th day in the month of September in the year 1984 for authorization # 84-3-69 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SAFETY REQUIREMENTS WITHIN FLOOR AREAS

B.C.C.#84-3-131
21 August 1984

General Description of Project

A spray paint shop for finishing automobile wheels is proposed for installation in an existing one storey industrial building. The building is constructed of masonry block walls, steel beams and a flat tar/gravel roof, classified as an F3 occupancy.

Reason for Application

O.B.C. 3.3.1.1.(2) and 3.3.7.2. requires that every process room where hazardous substances are used shall be separated from the remainder of the building by a 2 hr fire separation, unless the room is protected by a suitable fire extinguishing system.

Applicant's Position

The present building contains standpipe and fire alarm system; however, there is no provision for a wet sprinkler system. There are two spray booths which are totally enclosed in steel constructed cabinets complete with fully automatic paint spray robots. An automatic co_2 fire extinguishing system, automatic fail safe, manual overide switches, and standby emergency units are integrally built into the spray booths and drying equipment.

Building Official's Position

The installation of an automatic co_2 fire extinguishing system in the final finish area of this plant, does not conform to the Ontario Building Code which requires such areas to be fire separated and sprinklered. However, we are in sympathy with the applicant, based on fire tests using both wet and co_2 fire entinguishing systems.

Commission Ruling

In favour of the Applicant. Having heard both sides of this dispute with regard to life safety, detection, containment and suppression as paramount factors, the Applicant has demonstrated sufficiency of compliance with the code.

Reasons

The proposed fixed co_2 system with connected reserve provides a suitable extinguishing system.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

CANCELLATION OF APPLICATION

B.M.E.C. #84-4-70
27 May 1985

AND IN THE MATTER OF Application by:

Mr. Denis Walsh
Drug Trading Co. Ltd.
15 Ontario Street
Toronto, Ontario
M5A 2T9

AND AGENT:

Mr. Leszek Muniak
Rolf Jensen & Associates Ltd.
597 Don Mills Road
Don Mills, Ontario
M3C 1V2

SHALL BE CANCELLED AS FOLLOWS:

The submcommittee has investigated this application, the Commission has requested additional information at meeting and with letter via the Agent. No additional information has been received by the Commission to date, therefore we cannot proceed with any further investigation and this matter is now cancelled.

REASON:

Policy/procedure of the Commission is to cancel applications that have been in a "HOLD" position, such as waiting on additional information from an Application/Agent for a period of six months. This cancellation and a covering letter attached herewith has been set to the applicant's Agent by registered mail.

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#84-7-73
16 October 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Ford Glass Limited
101 Richmond St. West
Toronto, Ontario
M5H 1V9

ON THE SUBJECT OF:

Film reinforced back materials for framed mirrored glass, sliding or folding, wardrobe reach-in clothes closet doors, as an alternative to hardboard, plywood or particleboard.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/...

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. The applicable standard for this AUTHORIZATION shall be the CAN 2-826-M85 "Mirrored Glass, Sliding or Folding, Wardrobe Doors".

7. Labelling of each mirror, shall also indicate conformance to the applicable standard number, title, MACtac MP 20 adhesive, M6000 film and ten year warranty on the mirror and backing.

8. Installation of the film backing shall conform to the manufacturers published installation instructions and recommendations as submitted to the COMMISSION to date of this AUTHORIZATION to provide a proper bond at lamination. There shall be no exposure of adhesive to surface contaminates on the glass.

9. The manufacturer shall record testing involving aging of the adhesive and backing to determine and correct if degradation occurs.

DATED at Toronto this 16th day in the month of October in the year 1985 for authorization # 84-7-73 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#84-8-74
16 October 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Pelican Spruce Mills Ltd.
1150 - 154 Street
Edmonton, Alberta
T5M 3N8

ON THE SUBJECT OF:

Sturdi - Wood (oriented strand board) as an equivalent to plywood or waferboard in certain circumstances.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/...

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. The applicable standards for this AUTHORIZATION shall be the CAN 3-0437.0-M85 Waferboard and Strandboard and the CAN 3-0437.1-M85 Testing Methods for Waferboard and Strandboard.

7. Sturdi - Wood may be used for fire stopping, subflooring, roof sheathing and wall sheathing, when it has a minimum thickness as shown in the appropriate Ontario Building Code Article or Table for minimum plywood thickness.

8. Sturdi - Wood may be used for siding, interior finish and underlay when it conforms the appropriate Ontario Building Code article for minimum waferboard thickness.

DATED at Toronto this 16th day in the month of October in the year 1985 for authorization # 84-8-74 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

FASTENINGS ON EXIT DOORS AND HOLD OPEN DEVICES

B.C.C. #84-4-132
21 August 1984

General Description of Project

A newly constructed complex of two nine storey office buildings, with above grade parking garage is interconnected by a below grade tunnel and corridor system.

Reason for Application

The proposed exiting system as described in Subsection 3.4.8.15.(3) regarding the fastenings on exit doors to "be readily opened from the inside ..." contradicts another part of the code, in 3.1.7.2.(10) which speaks of "hold open devices ..." on exit doors and access to exit doors.

Applicant's Position

Thumb turns are located on the bottom rail of the glass exit doors from the tenant area, into the main lobby of the office building. This is the normal location when using glass doors. The doors may be "readily opened ..." in accordance with the O.B.C. The hold open devices are proposed for the doors of the mechanical rooms which open into the exit corridors in the basement of the office building.

Experience has shown that these doors are often held open by various devices not allowed by the building code, in order that service and delivery personnel have wide open access, thus creating an uncontrolled hazard. It is deemed therefore, that the installation of hold open devices wired to the fire alarm system will create a safer condition.

Building Official's Position

In considering the use of thumb turns, the location must be accessible to all persons, adult, children and the physically handicapped alike.

These locks in the bottom rail are not acceptable as being "readily opened". Hold open devices are not permitted in exit shafts, however, sentence 3.1.6.7.(5) of O.Reg. 583/83 permits these devices on exit doors in buildings up to three storeys in building height, whereas, this building is greater than three storeys.

2/...

Commission Ruling

In favour of the Applicant. The code does not specify any specific location for locking devices such as thumb turns in a bottom rail of a glass door. The hold open devices connected to the fire alarm system will not endanger lives, however, they will reduce the opportunity for persons to use wood wedges and screwdrivers.

Reasons

The integrity of the system proposed, namely electro-magnetic hardware connected to the fire alarm system and activated by both smoke and heat detectors has been proven by past experience to be adequately effective.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#84-5-71
13 December 1984

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Jeka Dakpannen B.V.
Postbus 3054
5930 AB Tegelen
Holland

AGENT:

Great Lakes Brick & Stone Limited
P.O. Box 1232
602 Grand Avenue East
Chatham, Ontario
N7M 5R9

ON THE SUBJECT OF:

Jeka Clay or Pantiles Roof tile system used on pitched roofs of building structures.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

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3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6.(1) All aspects of the Ontario Building Code Part 9 or Part 4 as applicable shall be complied with for new and existing roof support framing, rafters, trusses, sheathing, underlay and flashings, as designed to the recommendations of the manufacturer and his agent.

(2) For Part 9 buildings where Ontario Building Code design tables are used the roof design load shall be increased by 0.5 KN/m (10 lbs/sq.ft.) to allow for the weight of the roof tiles.

7. For existing roofs the structural adequacy of the roof framing and the supporting walls shall be certified by a Professional Engineer registered in the Province of Ontario.

8. Construction of this clay tile roof system as noted above shall comply with the published literature of Jeka Dakpannen bv and Great Lakes Brick & Stone Limited as submitted with the application and entitled "Report to Building Code Evaluation Commission" for the use of Jeka Clay Roofing Tiles, by Thames Valley Engineering Inc. Professional Engineers, Project 84-44, dated October 1984.

DATED at Toronto this 13th day in the month of DECEMBER in the year 1984 for authorization # 84-5-71 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

COMBUSTIBLE ELEMENTS IN NONCOMBUSTIBLE CONSTRUCTION

B.C.C. #84-5-133
28 AUGUST 1984

General Description of Project

A landscaped garden atmosphere and patio are proposed to be constructed on the roof of a newly constructed six storey office building.

Reason for Application

Proposed limited use of combustible elements on roof of noncombustible building. Reference O.B.C. 1975, 3.1.4.5., 3.3.5.2.(2)(a) and 3.3.1.12.(3).

Applicant's Position

The wood screen which encloses the cooling tower does not form part of the cladding to the building. It is not in any way structurally attached to the building nor does it affect the fire protection integrity. It rests on the roof of the building, serving as a shelter and providing an aesthetic atmosphere. For the same reasons the concrete planter boxes have wood screens to assist plant growth. The nature of the planting and location of the screens serves no danger to the limited usage of this roof patio.

Building Official's Position

The intent of the code is to limit the use of combustible construction in this type of building. Further, the planter screen is constructed in a manner that will facilitate climbing thereby creating a dangerous situation.

Commission Ruling

In favour of the Applicant. This particular roof top cooling tower wooden enclosure and the wooden landscape system adequately demonstrate conformance with the Code.

Reasons

The Applicant's proposal is acceptable when all wooden members of the cooling tower enclosure and the wooden landscape system will be treated with fire-retardant solution.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#84-6-72
13 December 1984

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Safety Light Corporation
4150 A Old Berwick Road
Bloomsburg, Pa. 17815
U.S.A.

AGENT:

Tri-Vision Inc.
1424 Hymus Blvd.
Suite 8
Dorval, Quebec
H9P 1J6

ON THE SUBJECT OF:

Self luminous exit sign, Isolite (tm) catalog no. 2040 with legend only in red (standard).

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/.....

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This AUTHORIZATION is only valid when the applicant and/or his agent complies with the Atomic Energy Control Board Radioistope Licence Number 4-8785-86 and any future renewals of same. Copies of this B.M.E.C. AUTHORIZATION and the above A.E.C.B. licence shall accompany each sign or group of signs to any one building.

7. This AUTHORIZATION may be used for all new or existing buildings for which a building permit is required.

8. This ISOLITE sign is exempted from the requirement of the Ontario Building Code that requires connection to an electrical cicuit separate from other electrical circuits and illumination by emergency power supply where required, also letter colouring.

9. Installation and maintenance shall also comply with Manufacturer's specifications for ISOLITE self-luminous exit sign and a copy shall be supplied with each sign or group of signs to any one building. The sign and bracket shall be securely anchored to the structure of the building with tamper-resistant mounting hardware.

10. Each sign shall be replaced no later than 12 years from date of manufacture however, the manufacturer and/or his agent shall by written registered letter at least 6 months prior to that expiry date notify each sign recipient and the Chief Fire Official of the Municipality regarding the expiry date, replacement and disposal of each sign.

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11. The manufacturer and/or his agent shall ensure that each sign is clearly and durably labelled with radiation warning and U.L. listing as evidence to the nature, activity, expiry date, manufacturer's date, serial number, manufacturer and agents name and address, and in addition the expiry date shall be either embossed, hot stamped, engraved, molded or similar method by which the expiry date becomes an integral part of this ISOLITE exit sign. Such labelling shall be mounted on the bottom outside frame of each sign where it will be clearly visible after installation of such sign.

DATED at Toronto this 13 day in the month of DECEMBER in the year 1984 for authorization # 84-6-72 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

FIRE PROTECTION OF EXITS

B.C.C. #84-6-134
28 August 1984

General Description of Project

An existing three storey office building with basement has a retail tenant on the first floor, who, proposes to extend the retail shop to include part of the basement area.

Reason for Application

Articles 9.9.4.7. and 9.9.8.2. would not allow an unenclosed stair to serve as an exit from the basement area since this building is more than two storeys in height.

Applicant's Position

Although this is only a three storey building plus basement, the building is completely sprinklered and all floor areas have two required exits, except the proposed basement area which has one required exit plus the proposed open unenclosed stair.

Adequate precautions, such as those required in Subsection 3.2.9., Mezzanines and openings through floor assemblies, have been incorporated as smoke baffles and close spaced sprinkler heads at the basement ceiling around this stair opening. It is mandatory to keep this open stair as an entrance to the basement to attract customers.

Building Official's Position

Since this building is more than two storeys in height, floor is more than 150 square metres and the proposed area is a basement, the code does not allow the use of the unenclosed stair without a 3/4 hr fire separation.

Commission Ruling

In favour of the Applicant. The proposed open stair conforms with the intent and demonstrates sufficient compliance with the O.B.C.

Reasons

The installation of a fully integrated smoke and fire alarm system in the entire building consisting of three floors and the basement. The existing sprinkler system shall conform to N.F.P.A. 13, 1982 and a smoke baffle with close spaced sprinklers shall be installed at the basement ceiling around the proposed stair opening.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

STAIR TREADS AND RISERS

B.C.C.#84-7-135
2 October 1984

General Description of Project

A designated heritage building was extensively renovated to reflect the original construction of the year 1882, the building is three storeys plus useable attic and basement space. The first floor is a retail outlet and the upper floors are offices and apartments.

Reason for Application

The rise/run ratio and riser height of the newly replaced wood stair, do not comply to the requirements of O.B.C. 3.4.8.9.(1) and (2).

Applicant's Position

Difficulties experienced in retrofitting an existing building and constraints of the existing structure have been overwhelming. However the product of rise and run of the new wood exit stair is not between 70 and 75 as required under 3.4.8.9.(1)(a) and the bottom riser varies by 3/4 inch. In general the stair risers and treads are uniform except for these few minor variations made necessary to fit the existing conditions.

Building Official's Position

The drawings approved for the building permit were detailed correctly. However on-site changes have brought to light these infractions of the Code as required in 3.4.8.9.

Commission Ruling

In favour of the Applicant. It is the decision of the Commission that this matter shows sufficiency of compliance with the Ontario Building Code.

Reasons

Based on an on-site visit the Commission has satisfied itself that the stairs as constructed do not detract from life safety.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

EXITS FOR
COVERED MALLS

B.C.C. #84-8-136
30 October 1984

General Description of Project

An existing two storey shopping centre constructed in the shape of a square, the centre of this square is a large exterior space. The building is on a sloping site such that there is direct access to grade at both levels.

Reason for Application

O.B.C. Article 3.4.2.4., two problems arise. One is that travel distance in the centre of the building will exceed the required limits and the second is that the entire population of parts of the building must exit via what are considered to be covered malls.

Applicant's Position

The proposed renovations to this building will involve covering the large exterior space in the centre and expanding the ground and second floor space into this opening thereby increasing the floor areas. The entire building will be subdivided into zones by 3 ft. deep smoke baffles each having smoke exhaust systems wired to the fire detection system. The zone reservoir formed by these smoke baffles would confine smoke to that zone for a period of time sufficient for evacuation of the zone. Close spaced sprinklers will be provided in each zone at the smoke baffles, these will assist in limiting smoke movement by providing a water curtain. As well, the adjacent zones will be pressurized to assist in limiting smoke movement and provide make up air for that being exhausted. A timed exit study shows that the occupants should be able to leave a zone in approximately one minute upon reacting to the alarm. In this regard, emergency voice communication is also provided to assist in evacuation.

Building Official's Position

The alternative fire protection measures proposed may well achieve the level of safety required by the Code, however, the same Code does not allow discretion by the Building Official.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that the Applicant has shown sufficiency of compliance.

Reasons

The proposed measures in the applicant's report will provide an adequate degree of life safety.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#84-9-75
21 May 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Engineered Air
1175 Twinney Cres.
Newmarket, Ontario
L3Y 5V7

ON THE SUBJECT OF:

Kitchen exhaust and filtration system with or without heat reclaim unit for supply return air make up to kitchen area only.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/...

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. The kitchen exhaust duct beyond the fire damper located on the exhaust side of the filtered unit may be installed in accordance with the Ontario Building Code 6.2.3. when it passes directly to atmosphere and not through any fire separation.

7. Installation and maintenance shall comply with the application dated 24 February 1985, and proposal as submitted by the applicant titled, "Specifications for Application for Authorization to Manufacture and Install Heat Reclaim Systems for Kitchen Ventilation", dated 5 February 1985 which include drawings #1 to #6 inclusive.

8. The tempered supply return air duct system shall be installed in accordance with the Ontario Building Code Subsection 6.2.3. and discharge only to the kitchen area. There shall be a fire damper in this supply return air duct at the reclaim unit.

9. Where a heat reclaim unit is used with gas fired kitchen cooking equipment, the heat reclaim unit shall have separate air stream for exhaust to outside of the building and the make up air system to only the kitchen area.

10. This authorization does not include any gas or liquid fired make up air units, any such units may be separately approved by the Fuels Safety Branch.

11. Except as noted above the entire system shall conform to NFPA 96-1980.

DATED at Toronto this 21st day in the month of May in the year 1985 for authorization # 84-9-75 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

ADDITIONAL REQUIREMENTS FOR HIGH RISE BUILDINGS

B.C.C. #84-9-137
30 October 1984

General Description of Project

A proposed 12 storey building of unusual configuration contains three classifications namely, Group C for the condominiums, Group A-2 for community services and Group E for the retail area.

Reason for Application

As the building is over 18 meters but under 36 meters and the "major occupancy" is Group C, the additional requirements for high rise buildings Subsection 3.2.6. have been applied by the Building Official in opposition to the Architect.

Applicant's Position

The portion of this Subsection dealing with smoke control in stairways does not apply to this building as noted in 3.2.6.2.(10). There are seven independent exit stairs servicing the upper floors, three are shared exit stairs serving the residential portion and community space. Three other exit stairs serve exclusively the community space and the last one exclusively remains for the residential portion. Because each stair is fire separated there should be no need for the additional expensive pressurizing of the three shared exit stairs.

Building Official's Position

Proposed building contains an assembly, retail, garage and residential occupancies however, shared exit stairs must be pressurized or the building must be fully sprinklered. There is no guarantee on maintaining fire separations during or after construction and no guarantee on the use of the community service and assembly areas. Sentence 3.2.6.2.(1) refers to occupancy of the whole building and not to mixed use of the building which, is not a integral part of the residential portion.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that the Applicant's proposal does not meet the requirement of the Code.

Reasons

The definition of major occupancy specifically relates to subsidiary occupancies which are an integral part of the principal occupancy and this building does not fit this definition.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#84-10-76
16 October 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Redirack Industries Limited
114 Clayson Road
Weston, Ontario
M9M 2H3

ON THE SUBJECT OF:

A self contained structural shelf and rack storage facility within a building, having one or more solid intermediate deck or walkway levels for personnel access.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/...

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6.(1)(a) Deck level shall be a continuous horizontal construction membrane through the entire shelf rack facility, and

(b) Walkway level shall be the horizontal construction membrane between the solid shelving installed on the same plane, and

(c) Level area means the greatest horizontal area of the shelf and rack storage facility.

(2)(a) Deck or walkway levels shall be constructed of solid closed surface steel planking or,

(b) Steel roof decking with minimum 16 mm (5/8 in.) maximum 19 mm (3/4 in.) thick tongue and groove solid wood or plywood.

(3) The structural design of the entire shelf and rack storage facility support system including posts, beams, decks, walkways, connections, and their supports such as concrete slabs, separate foundations or similar shall be in accordance with Ontario Building Code Part 4 requirements.

(4) Detailed drawings for each installation shall be stamped by a member of the Association of Professional Engineers of Ontario certifying conformity with this authorization. These drawings shall also detail an appropriate sign to indicate the maximum permissible design loads for each rack storage system and such sign shall be permanently fixed to the building interior and displayed in a prominent unobstructed viewing position. These drawings shall be submitted for a building permit in the usual way.

3/...

7. An approved wet pipe sprinkler system shall be designed and installed for the entire shelf and rack storage facility including the top level and shall be in conformance with N.F.P.A. 13-1983, and N.F.P.A. 231C-1980 or the appropriate N.F.P.A. Standard for the most severe hazard that it is exposed too. Sprinklers are not required where only Class 1 commodities as defined in the following paragraph 8.(2) are stored.

8.(1)(a) The entire shelf and rack storage dimension shall be limited to Table 8.A. based on the type of commodity stored as defined in paragraph 8, (2), (3), (4) and (5). Excerpts of N.F.P.A. 231C-1980 are outlined in the attached appendix dated 20 October 1983.

(b) A firewall as defined in the Ontario Building Code Regulation 583/83, may divide the confining building into two or more separate buildings, wherein, one of the following classes may be assigned to each of the separate buildings.

(2) Class I commodities are non-combustible products, as defined in N.F.P.A. 231C-1980; or

(3) Class II, III, and IV commodities are combustible products, as defined in N.F.P.A. 231C-1980; or

(4) Class SS commodities are special hazard products not covered in paragraph 8.(2), (3) or (5);

(5) Aerosol products composed of greater than 55% non-water miscible flammable products including lubricants; paints oil-based anti-perspirants, furniture polish, insecticides and automotive products, are to be stored only:

(a) On the ground floor of the racking system, and

(b) In a designed area separated by,

(i) a vertical 1 hr. fire separation, or

(ii) a vertical chairn link fencing not lighter than 9 ga. steel wire made into a 50 mm (2 in.) diamond mesh, located not less than 2.5 m (8ft.) from all other storage where the adjacent storage is more hazardous than Class IV commodity, or

(iii) a method acceptable to the chief Fire Official, and

(c) In the designated area protected by an in-rack sprinkler system. The sprinkler demand shall be a minimum of 1.9 L/s (30 g.p.m. (U.S.)) discharge per head with 74°C (165°F) heads or less and shall be 2.5 m (8 ft.) apart maximum. This design shall be further based on the operation of the hydraulically most remote;

(i) 8 sprinklers if one level, or

(ii) 6 sprinklers on each level if only two levels, or

(iii) 6 sprinklers on each of the top three levels if three or more levels.

(d) Single row racks shall require only the inrack sprinklers, whereas, double row racks shall require sprinklers in longitudinal flue as well as on face sprinklers which shall be staggered on opposite sides of racks.

TABLE 8.A.
Forming Part of Paragraph 8

Shelf and Rack Storage Facility				
Commodity Classes	Maximum Height ①		Maximum Area ②	
	m	ft	m^2	sq. ft.
Class I	6 12 18	20 40 60	unlimited 20,070 13,380	unlimited 216,000 144,000
Class II, III, and IV	6 12 18	20 40 60	8,920 4,460 2,230	96,000 48,000 24,000
Class SS	6 12 18	20 40 60	3,340 1,670 1,110	36,000 18,000 12,000
Column 1	2	3	4	5

NOTE: ①: The maximum height shall be from the floor supporting the shelf and rack system to the topmost portion of the racking system.

②: The maximum area is the sum total of all levels of the shelf and rack system as well as the floor.

9. A plain legible sign or signs, with contrasting letters and titled "NOTICE", shall describe the above Class and requirements for each shelf and rack storage facility. This sign or signs shall be permanently mounted, at or near the main water supply for the sprinkler system and shall be maintained at all times. For Class 1 commodities this "NOTICE" shall be permanently mounted, at or near the main entrance to this shelf and rack storage facility.

10.(1) Exits shall be separated from the rack storage facilities with fire separations, having a fire resistance rating conforming to Subsection 3.4.5 of the Ontario Building Code; and

(2) the exit stair shafts shall conform to all requirements for exits as stated in Section 3.4 of the Ontario Building Code; and

(3) no fewer than 2 exits are required from each deck or walkway level, except where there are not more than two levels above the building floor, and the level area does not exceed 139 m^2 (1500 sq. ft.), two means of egress shall be required without the requirements of fire separation for exit, and

(4) any opening in a deck for egress, convenience stairs, ramps or chutes, shall be protected by smoke baffles and close spaced sprinklers as per paragraph 7 of this authorization.

11. The maximum travel distance to exits shall not exceed 46 m (150 ft.) and to a fire extinguisher shall not exceed 23 m (75 ft.).

12.(1) Where a shelf and rack storage facility contains two or more deck or walkway levels and where each level is greater than 239 m^2 (2,500 sq. ft.), a smoke detection system shall be installed on the underside of each deck level on which a walkway or aisle is located, and

(2) the number of system smoke detectors installed shall be in accordance to CAN4-S524-M1982.

13. The clear aisle width shall not be less than 760 mm (30 inches).

14. This shelf and rack storage facility is not permitted in F-1 occupancy as defined in the Ontario Building Code.

6/...

15. The shelf and rack storage facilities shall be used only for storage and not for manufacturing, production, wrapping or assembly.

16. The shelf and rack storage facilities shall be accessible to employees only and shall be designated, signed and posted as a "NO SMOKING" area conforming to Subsection 2.4.3 of the Ontario Fire code.

17.(1) In building areas containing shelf and rack storage facilities exceeding 4,645 m^2 (50,000 sq. ft.) and except for storage of Class I commodities as defined in paragraph 8 of this document, manually operated smoke vents shall be installed in accordance with N.F.P.A. 204, Section 230, and

(2) The smoke vent opening shall be not less than 1.2 m by 1.8 m (4 ft. by 6 ft.) and the openings shall be located not more than 23 m (75 ft.) from any exterior wall and not more than 46 m (150 ft.) from each other.

18.(1) A standpipe and hose system shall be installed in accordance with Article 3.2.5.4 of the Ontario Building Code where the shelf and rack storage facility height is more than 3 levels including floor level or 14 m (45 ft.) in height.

(2) Where a standpipe and hose system is required, 63.5 mm (2-1/2 in.) diameter hose connections shall be provided, except that 38.1 mm (1-1/2 in.) hose connections are permitted in the shelf and rack storage facilities which;

(a) neither exceed 6 levels including the flo

(b) do not exceed 3,716 m^2 (40,000 sq. ft.) in the sum total of all levels of the shelf and rack storage facility.

APPENDIX

RE: AUTHORIZATION Redirack Industries B.M.E.C. #84-10-76
16 October 1985

Commodity Classifications:

The following guide for commodity classification applies specifically to rack storage and is not related to any other method of classification of materials.

Class I commodity is defined as essentially non-combustible product on wood pallets, or in ordinary corrugated cartons with or without single thickness dividers or in ordinary paper wrappings, all on wood pallets. Such products may have a negligible amount of plastic trim, such as knobs or handles.

Examples of Class I products are:

Metal Products. Metal desks with plastic tops and trim, electrical coils, electrical devices in their metal enclosures, pots and pans, electrical motors, dry cell batteries, metal pots and pans, electrical motors, dry cell batteries, metal parts, empty cans, stoves, washers, dryers and metal cabinets.

Glass Products. Glass bottles, empty or filled with non-combustible liquids, mirrors.

Foods. Foods in non-combustible containers; frozen foods; meat, fresh fruits and vegetables in non-plastic trays or containers; dairy products in nonwax-coated paper containers, beer or wine up to 20 percent alcohol, in metal, ceramic or glass containers.

Others. Oil-filled and other types of distribution transformers, cement in bags, electrical insulators, gypsum board, inert pigments, dry insecticides.

Class II commodity is defined as Class I products in slatted wooden crates, solid wooden boxes, multiple thickness paperboard cartons, or equivalent combustible packaging material on wood pallets.

Examples of Class II products are: thinly coated fine wire such as radio coil wire on reels or in cartons; incandescent or fluorescent light bulbs; beer or wine up to 20 percent alcohol in wood containers; and class I products, if in small cartons or small packages placed in ordinary corrugated cartons.

Class III commodity is defined as wood, paper, natural fiber cloth, or products thereof, on wood pallets. Products may contain a limited amount of plastics. Wood dressers with plastic drawer guides, handles, and trim are examples of a commodity with limited amount of plastic.

8/...

Examples of Class III products are:

Paper Products. Books, magazines, newspapers, stationery, plastic coated paper food containers, paper or cardboard games, tissue products, rolled paper on side or steel banded on end, and regenerated cellulosics (cellophane).

Leather Products. Shoes, jackets, gloves, and luggage.

Wood Products. Doors, windows, door and window frames, combustible fiberboard, wood cabinets, furniture and other wood products.

Textiles. Natural fiber upholstered non-plastic furniature, wood or metal furniture with plastic padded and covered arm rests, mattresses without expanded plastic or rubber, absorbent cotton in cartons, natural fiber and viscose yarn thread, and products, and natural fiber clothing or textile products.

Others. Tobacco products in paperboard cartons, non-flammable liquids such as soaps, detergent and bleaches, and non-flammable pharmaceuticals in plastic containers; combustible foods or cereal products, and non-negative producing film packs in sealed metal foil wrappers in paperboard packages.

Class IV commodity is defined in Class I, II and/or III products containing an appreciable amount of plastics in a paperboard carton or Class I, II and/or III products with plastic packaging in paperboard cartons on wood pallets.

Examples of Class IV products are small appliances, typewriters and cameras with plastic parts, plastic backed tapes and synthetic fabrics or clothing. An example of packing material is a metal product in a foamed plastic cocoon in a corrugated carton.

Class IV commodity also includes:

Textiles. Synthetic thread and yarn except viscose, and non-viscose synthetic fabrics or clothing.

Others. Telephones, vinyl floor tile, wood or metal frame upholstered furniture or mattresses with plastic covering and/or padding, and plastic padded metal dashboards or metal bumpers.

DATED at Toronto this 16th day in the month of October in the year 1985 for authorization # 84-10-76 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

ROOM AND SPACE DIMENSIONS

B.C.C. #84-10-138
6 November 1984

General Description of Project

This is a proposed new mixed-use Commercial/Senior Citizens Housing project. Four towers to be built onto a common podium, two of which are four storey while the remaining two will be seven storey in height.

Reason for Application

Article 3.6.1.2. and 9.5.1.6. makes reference to areas and dimensions of rooms and spaces to be adequate for their intended use, the proposed dwelling units have combined dining/kitchen space which does not comply with the O.B.C.

Applicant's Position

The rooms identified as bedrooms will largely be used as bed-sitting rooms, which, should be considered as combined bed/living rooms, as well, the kitchen is a combined dining/kitchen space which has a provision for built in furniture namely, a combined unit enclosing stove, fridge and sink. Also the heated enclosed balconies should be considered as part of the living area.

Building Official's Position

The combined kitchen/dining area has the largest space deficiencies however, some of the other areas may make up overall combined total. It is noted that the rental agreement contains use of the commercial dining room and kitchen on the main floor. The building official does not have the discretion to allow these dwelling units to be constructed.

Commission Ruling

In favour of the Applicant. The proposal shows sufficiency of compliance provided that:

(a) The minimum floor area in each dwelling unit, inclusive of balcony area, satisfies the sum of the minimum areas defined in Subsections 9.5.3., 9.5.5. and Articles 9.5.4.3. and 9.5.6.3.

(b) Each dwelling unit shall have no dimension less than 3 m, except for the heated enclosed balcony.

Reason

The dwelling unit is adequate for the intended use.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#84-11-77
16 October 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Dow Chemical Canada Inc.
3035 Orlando Drive
Mississauga, Ontario
L4V 1L6

ON THE SUBJECT OF:

Styrofoam brand Foundation Coating, which is a latex modified, fibre reinforced, portland cement parging applied to the Styrofoam SM brand insulation, used on exterior basement walls.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/...

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS

6. Installation and materials of Styrofoam SM brand insulation and Styrofoam brand Foundation Coating, shall be in accordance with the published instruction of Dow Chemical as submitted to the COMMISSION to date of this authorization.

7. Maximum Coating coverage height above grade shall not exceed 1200 mm (4'-0") and a minimum of 305 mm (1'-0") below grade. Expansion joints in the Coating shall be placed over those required to be constructed in the wall and shall not exceed a coverage area of 14 m^2 (150 sq. ft.). The Coating shall only be applied above 5°C (40°F) for a minimum of 48 hr. curing.

8. The Chief Building Official may request each installation to include the following verification procedure:

   (1) a visual examination of the whole area when the Styrofoam SM brand insulation is in place.

      (a) to check mechanical anchoring of Styrofoam SM brand insulation, and

      (b) to check minimum 3 mm (1/8" thick spacers in place or removed for screeding application, and

      (c) a determination of the quality of material used by count of the on site containers, and a comparison of this quantity with that required for the area covered as noted in the instructions on the labels regarding the amounts of application, and

      (d) the obliteration of the labels on the empty or to be used containers by the building official.

9. All installation literature by Dow Chemical shall include the above method of installation.

DATED at Toronto this 16th day in the month of October in the year 1985 for authorization 84-11-77 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SELF-SERVICE
STORAGE BUILDINGS

B.C.C. #84-11-139
6 November 1984

General Description of Project

A proposed one storey self service storage building is to be constructed of concrete block walls and wood trusses with roof decking. This building will be used as a mini storage warehouse, having numerous overhead doors in the exterior walls to facilitate individual persons for access from the exterior only to their rental area.

Reason for Application

Sentence 3.9.2.7.(2) requires two washrooms, each containing a water closet and a lavatory, these shall be provided within one of the buildings on the property. Plumbing facilities were not provided and the building permit was not issued.

Applicant's Position

The proposed building is a satellite to our existing self storage business, which, is approximately a half mile down the road and contains the rental office and has all the required plumbing facilities. The new storage building is not normally occupied and each customer provides their own lock and key to their storage rental area. Further, there is no water or sewer services for a quarter of a mile within this property.

Building Official's Position

Sentence 3.9.2.7.(1) states "except as provided in Sentence (2), the requirements in Subsection 3.6.4. shall apply", the Sentence (2) requires "two washrooms ... within one of the buildings on the property".

There is no authority in the Code for the Building Official to vary from the foregoing requirements.

Commission Ruling

In favour of the Applicant. It is the decision of the Commission regarding this mini self-storage building that there is sufficiency of compliance provided that the installation meets the requirements of Sentence 3.6.4.1.(2).

Reason

Plumbing facilities need not be provided in a building which is not normally occupied by persons and where installations are impractical.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#84-12-78
21 May 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Rofu International Corp.
3725 Old Conejo Road
Newbury Park, California, U.S.A.
91320

AGENT:

Rutherford Controls Ltd.
1425 Bishop Street
Cambridge, Ontario
N1R 6J9

ON THE SUBJECT OF:

Series 8000 Electro Magnetic Locking Devices for exit and access to exit doors.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/...

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This authorization is not applicable to a Group F Division 1 occupancy.

7. This authorization shall be used only within those buildings for which all Electro Magnetic Locking devices and components can be operated by the building fire alarm system, and shall have a continually monitored central control unit which is manned by "supervisory staff" (see para. 9(c)) at all times the building is occupied. Provision shall be made such that all these devices can be de-energized simultaneously at this central control unit.

8. The complete system of Electro Magnetic Locking Devices shall be installed and approved in conformance to CAN 4-S524-M82 and maintained in conformance to Ontario Regulation 730/81, Fire code, Section 6.3.

9. All Electro Magnetic Locking Devices shall be de-energized immediately allowing the doors to be opened on,

   (a) the actuation of the initial stage of the fire alarm system, or

   (b) the actuation of an automatic fire detection or extinguishing system if one is present, and

   (c) the manual interpretation of the Electro Magnetic circuit by "supervisory staff" as defined in Ontario Regulation 730/81, Fire Code, and

   (d) the loss of electrical power controlling the locking device or any fault in the installation.

3/...

10. A fire alarm system manual pull station shall be located on the wall at the latch side of the door and within 600 mm (2 ft.) of each door or group of doors allowing free egress and which is equipped with these devices.

11. A legible sign, with 25 mm (1 in.) high by 20 mm (3/4 in.) wide and 5 mm (1/4 in.) stroke lettering, shall be permanently mounted and maintained at all times on each door equipped with these devices. Such signs shall be mounted at 1.4 mm (4 ft. 6 in.) from finished floor to the bottom of such sign and shall state:

EMERGENCY EXIT
UNLOCKED BY FIRE ALARM
OR BY SECURITY SYSTEM

12. Illumination to an average level of at least 100 lx (10 ft. candles) shall be provided by emergency electrical power supply for the central control unit in para. 7 and each pull station in para. 10 and each sign in para. 11.

DATED AT Toronto this 21st day in the month of May in the year 1985 for authorization # 84-12-78 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

AMENDED
#84-12-78
7 November
1986

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Rofu International Corp.
2725 Old Conejo Road
Newbury Park, California
U.S.A. 91320

AGENT:

Rutherford Controls
1425 Bishop Street
Cambridge, Ontario
N1R 6J9

ON THE SUBJECT OF:

Rofu 8000 series, Electromagnetic locking devices for installation on an exit or access to exit door(s) or emergency access to floor areas.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

.../2

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This complete system of Electromagnetic locking devices shall be installed and approved in conformance to CAN 4-S524-M82 and maintained in conformance to Ontario Regulation 730/81, Fire Code, Section 6.3. except as noted in the Building Code or stated herein.

7. Card identifiers and/or microprocessors with or without time delay to a maximum of 15 seconds may be used in addition to this ancillary device of electromagnetic locking device provided that:

   (a) the required sign and lettering have the added words... OR KEEP PUSHING DOOR UNLOCKS IN 15 SECONDS

8. This electromagnetic locking device may be installed on emergency access to floor areas from exit stairs, provided that conformance to the Code and this Authorization are met from the exit stair side of the access to the floor area, as well as from the floor area side of the exit to the stair.

DATED at Toronto this 7th day in the month of November in the year 1986 for authorization # 84-12-78 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

CONSTRUCTION RELATIVE TO OCCUPANCY

B.C.C. #84-12-140
4 December 1984

General Description of Project

It is proposed to convert an existing four storey mill building into a resort inn, the exterior walls and a firewall inside the building are constructed of stone, however, the columns, beams and flooring are of heavy timber.

Reason for Application

Sentence 3.2.2.27.(2) of the O.B.C. requires a building for this use to be of non-combustible construction. Part Eleven does not apply to hotels as noted in Sentence 2.1.1.9.(3).

Applicant's Position

To consider the many fire/life safety trade offs which are incorporated in the proposed renovations which more than compensate for the non-combustibility requirement of the O.B.C. Only in very small areas such as the lobby and dining room will there be any exposed wood beams and columns, this is to maintain the country inn atmosphere. However, we will incorporate total sprinkler, fire detection, new code complying exits and shorter distance of travel. The existing wood timbers are approximately twenty-five percent over design for this occupancy.

Building Official's Position

The extra provisions of sprinklers, cladding of and/or protection of timber members, reduced travel distance, exits and fire department access routes around the building, will provide the occupants of the building with a reasonable degree of life safety, it is not within my authority to approve this proposal.

Commission Ruling

In favour of the Applicant. It is the decision of the Commission that the proposal conforms with the intent and demonstrates sufficient compliance with the O.B.C.

Reasons

The Applicant proposes to install a sprinkler system for the entire building, apply fire retardant coating on all exposed wood areas, pressurize new staircases and all new additions to comply with O.B.C.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

STAIR TREADS AND RISERS

B.C.C. #84-13-141
4 December 1984

General Description of Project

A newly constructed eleven storey apartment building used poured in place concrete stairs for two required exits the full height of the building.

Reason for Application

Clause 3.4.8.9.(1)(a) of the Ontario Building Code as amended to O.Reg. 720/81, requires the product of rise and run in inches to be not less than 70 and not more than 75, however, the new stairs did not comply to this Clause.

Applicant's Position

Due to an error in fabricating the formwork for the concrete exit stairs, the average product of rise and run is 67 inches. Essentially all stair treads and risers are built uniform. It is readily seen that the stairs are built safe and are easily manageable for both ascent and descent.

Building Official's Position

The drawings approved for the building permit were detailed correctly, however an on site error resulted in an average rise/run ratio of 66.2" in lieu of the required 70" to 75" which does not comply to the O.B.C.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that this matter conforms with the intent and demonstrates sufficient compliance with O.B.C. regulation.

Reasons

The Commission members visited the building site and safisfied themselves, that the stairs as constructed do not affect life safety requirements of the O.B.C.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SPATIAL SEPARATION
AND LIMITING DISTANCE

B.C.C. 84-14-142
11 December 1984

General Description of Project

A proposed new sixteen storey office building is to be constructed with zero clearance to an existing designated historical four storey building owned by the same person and on the same property. However, the owner wishes to sever the property thereby putting each building on two separate properties at a later date.

Reason for Application

3.2.3.4. (2) of the O.B.C. does not allow windows on that side of the new building which faces the existing building due to lack of spatial separation.

Applicant's Position

The owner is willing to trade off the air rights above the existing building to allow windows in the new building. Further, exceeding code requirements sprinklers will be installed in both buildings, plus in the existing buildings, fire standpipes, fire alarm system and detection system, also one hour fire separation from floor to floor and two hour fire separation at the roof level shall be installed. Electric heating will be installed in the existing building and the chimney will be deleted.

Building Official's Position

The code does not allow unprotected (window) openings in the exposing new building face overlooking the existing building. However, the additional fire protection of both buildings is commendable but does not conform to code requirements.

Commission Ruling

In favour of the Applicant. The decision of the B.C.C. that the proposal shows sufficiency of compliance provided that both parties, the applicant and building official take appropriate action on a mutually agreed upon method to register on the title covering both properties so present and future owners be made aware of the following limitations and requirements which allow the new building to have unprotected openings above and overlook the existing building.

2/...

1. The new building is of non-combustible construction.
2. The new building is fully sprinklered and equipped with standpipes complying with the code.
3. The existing building shall have a new roof with a 2 hour fire resistance rating and protected membrane.
4. The chimney of the existing building shall be removed and capped, and the heating system shall not require the use of a chimney or vent.
5. The existing building shall be fully sprinklered and equipped with a fire detection system, all in accordance with the code.
6. The existing building or any future building, on the site of the existing building, shall not exceed the height or area of the present building.
7. There shall be no dwelling units in the existing building.

Ministry of Municipal Affairs and Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SPATIAL SEPARATION
AND LIMITING DISTANCE

B.C.C. #84-15-143
11 December 1984

General Description of Project

An existing two storey house is 4'3" from the property line adjacent to a public park which is on the lakefront.

Reason for Application

The O.B.C. Subsection 9.10.15. limits the amount of unprotected (windows) openings in the exposing building face.

Applicant's Position

Since the exposing building face of the house is adjacent to a public park with no buildings and bordering on a public lake, there should be no reason not to install windows overlooking the park and lake.

Building Official's Position

Limiting distance and percentage of unprotected openings in an exposing building face is defined in the code and the inspection department cannot permit the extra windows proposed by the owner.

Commission Ruling

In favour of the Applicant. It is the decision of the Commission that the proposal show sufficiency of compliance to the code, provided that the applicant and building official take appropriate action on a mutually agreed upon method to register on the title covering both properties so that present and future owners be made aware of the following conditions which will allow the existing building to have unprotected openings adjacent to the park area.

1. Should a building or structure be erected on the present park land immediately to the side of the house and then all requirements of the O.B.C. regarding openings on the exposing building face must be complied with.

Reasons

The Commision sees no life safety problems at this time but the above condition will provide for life safety protection in the future should conditions change.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

KIOSKS IN A COVERED MALL

B.C.C.#84-16-144
14 February 1985

General Description of Project

Several linear connected kiosks were proposed in an existing covered shopping mall that was constructed as separate buildings connected by a roof.

Reason for Application

O.B.C. Reg. 583/83, Sentence 3.2.3.13.(1) requires that connected buildings be at least 9 m apart and that kiosks in a covered mall be not more than 21 m^2 in area unless the buildings are more than 13.5 m apart. Also Clause 3.4.2.4.(1)(b) requiring an unobstructed travel path at least 3 m wide adjacent to each connected building.

Applicant's Position

The kiosk area limits and horizontal separation requirements are intended for occupancy on both sides of the mall. Since the kiosks are located against the opposite wall 7 m from the stores, the intent of the Code will be met even if the kiosks exceed 21 m^2 in area.

Building Official's Position

The only allowance in the Code for kiosks to exceed the 21 m^2 area requirement is where the horizontal separation between buildings exceeds 13.5 m. Also columns in front of the kiosks do not allow an unobstructed travel space of 3 m.

Commission Ruling

In favour of the Applicant. The proposed special structure meets the intent of the Code, because:

(a) it provides acceptable pedestrian traffic flow;

(b) it will consist of totally non-combustible construction and meet the flame spread rating required for exist systems;

(c) it will exclude heating and cooking appliances;

(d) the maximum area of individual tenant spaces will not exceed 46 m^2 and the partitions will be 2-hour fire rated;

(e) the mall ceiling above the special structure will be closed to the perimeter wall of the building and an additional line of close spaced sprinklers will be installed at the existing mall ceiling level directly above the special structure.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

CLOSURES IN FIRE SEPARATION

B.C.C. #84-17-145
14 February 1985

General Description of Project

An existing two-storey public library is separated from a multi-storey residential occupancy by a "permanent fire separation" under a previous Commission ruling, so as to create two separate buildings.

Reason for Application

O.B.C. Reg. 583/83. Subsection 3.1.6. permits openings in fire separations. It is proposed that a door be constructed in the fire separation for accessibility of handicapped persons into the public library. It is not known what openings are permitted in the wall, which the previous Commission ruling termed a "permanent fire separation".

Applicant's Position

The proposed door will meet the Code requirements.

Building Official's Position

The previous Commission ruling specified a "permanent fire separation" and the proposed door is not permanent in terms of providing this separation.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that the proposed opening with closure complies with the requirements of the Code.

Reasons

The Code permits a fire rated and smoke tight door in a fire rated and smoke tight separation.

It was also noted that the existing integrated fire alarm and voice communication system is operational, electrically supervised, and will cause an alarm signal to be directly transmitted to the fire department.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SECONDARY EXITS IN BEDROOMS

B.C.C. #84-18-146
21 February 1985

General Description of Project

Bedroom windows with bottom sliders in two-floor family home, where the unobstructed open portion must include the area of the removable sash to conform to the minimum area of secondary exit requirements as set out in Article 9.7.2.3 of the O.B.C. Reg. 583/83.

Reason for Application

O.B.C. Reg. 583/83, Article 9.7.2.3. requires that: "Except where a bedroom provides access directly to the exterior, each bedroom shall have at least one outside window that can be opened from the inside without the use of tools and each window shall provide an individual, unobstructed open portion having a minimum area of 0.35 m^2 and having no dimension less than 380 mm."

Applicant's Position

The Applicant maintained that in arriving at the area of the individual unobstructed portion of the window for the purposes of Article 9.7.2.3. it should be assumed that the sash could be removed easily with knowledge acquired through dismantling the window for cleaning purposes and that the remaining area would be the area required.

Building Official's Position

A person should not have to remove the panels of a window in order to effect escape through a bedroom window. The Building Code is worded in such a manner as to permit the removal of the sash panels, as long as tools are not required.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that application #84-18-146 in the matter regarding Article 9.7.2.3. of the Ontario Building Code Exhibit #11 does not meet the intent of the Code.

Reasons

The necessity of removing the sliding sashes does not comply with the Code in providing the required unobstructed escape opening.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SAFETY REQUIREMENTS WITHIN FLOOR AREAS
EXIT REQUIRED

B.C.C. #84-19-147
21 February 1985

General Description of Project

A one-storey sprinklered restaurant located in a strip plaza and of approximately 3,500 square feet all with a dining room capacity of 122 people. The entrance to the restaurant is through a customer waiting area with egress through the kitchen areas.

Reason for Application

Revised O.B.C. Reg. 549/84, Sentence 3.3.1.3.(1) and Sentence 3.3.1.4.(1) may require an exit to be added to the dining room area.

Applicant's Position

The Applicant maintained that Article 3.3.1.3. does not apply, that Sentences 3,4.2.2.(1) and 3.4.2.3.(1) were the operative provisions and that the restaurant plan was in conformance with these. The Applicant further maintained that the customer waiting area, the cookline area, service bar area and the dining room constituted one suite which according to Sentence 3.3.1.4.(1) require only two exits in total.

Building Official's Position

The seating area of the restaurant constitutes a room or suite of rooms having an occupant load in excess of 60 and as such, must also comply with Sentences 3.3.1.3.(1) and 3.3.1.4.(1) and an additional exit must be added from the dining room area.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that application #84-19-147 does not comply with the Code.

Reasons

The occupancy load and layout of the dining room is such that two egress doors are required, remote from each other.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

OPEN COMMUNICATION STAIRWAY

B.C.C. #84-20-148
14 March 1985

General Description of Project

A recently renovated three-storey building used for commercial purposes. It is intended that an open communication stair be provided between the second and third floor within the tenant space to facilitate internal circulation and movement of materials.

Reason for Application

O.B.C. Reg. 583/83, Sentence 3.2.9.1.(8) permits the ground and second floor of a sprinklered building to be interconnected by an opening. Sentence 3.2.9.1.(7) permits any floors in a building to be interconnected providing the opening is limited to 100 sq.ft. in area and close-spaced sprinklers are provided around the opening.

Applicant's Position

The Code would permit the opening in question to be constructed without any additional protection if the opening occurred between the ground and second floor of the building rather than the second and third floor.

Additional close-spaced sprinkler protection is based on the Code requirements in Sentence 3.2.9.1.(7) of the Code except that the size of the opening exceeds the 100 sq.ft. limit. Furthermore, an opening of 100 sq.ft. could have a perimeter opening exceeding 50 linear feet to be protected by close-spaced sprinklers. The opening in question is enclosed on two sides and as a result, the perimeter opening to be protected is less than 40 linear feet.

Smoke detectors have been provided around the opening on the second floor ceiling (although not required by the Code) such that smoke reaching this opening will activate the fire alarm system and provide early warning to the occupants on the third floor. This stair is not a required exit stair. Two enclosed exit stairs are provided for the occupants on these levels.

Building Official's Position

The proposed open communication stairway will not be in conformance with Code. Article 3.2.9.2. is less than 9 m in diameter.

The opening in question occurs between the second and third floor and as such is not in strict compliance with Sentence 3.2.9.1.(8). Similarly, the opening is approximately 250 sq.ft. in area and as such is not in strict compliance with Sentence 3.2.9.1.(7).

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #84-20-148 meets the intent of the Code with respect to Life Safety.

Reasons

The opening between the 2nd and 3rd floors in this 2-storey building is protected by:

(a) close-spaced sprinklers in accordance with NFPA-13;

(b) smoke baffles in accordance with NFPA-13;

(c) smoke detectors at perimeter of the 2nd floor opening.

In addition, the building is fully sprinklered and the opening is separated from the exits on the third floor by a rated fire separation.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

OPEN COMMUNICATION STAIRWAY

B.C.C. #84-21-149
14 March 1985

General Description of Project

It is proposed that an open staircase currently connecting the 34th and 35th floors of a multi-storey downtown office building be extended to interconnect with office space on the 33rd floor. It is intended that the extension of this stair be "open".

Reason for Application

O.B.C. Reg. 583/83, Subsection 3.2.9. addresses the interconnection of floors. Specifically, Sentence 3.2.9.1.(7) permits the interconnection of any number of floors in a sprinklered building by floor openings for escalators and inclined moving walkways, provided the area of each opening does not exceed 10 m^2 (106 sq.ft.) and close-spaced sprinklers are installed at the perimeter of each opening. The Code is silent on the incorporation of stairs through such openings.

The floor opening design for the interconnection of the 33rd floor with the 34th and 35th floors, is not in strict compliance with Sentence 3.2.9.1.(7) since the opening has an area of approximately 16 m^2. In addition, the application of this requirement may be questioned, since the requirement pertains to floor openings for escalators and moving walkways and does not address stairs.

Applicant's Position

The building concerned is fully sprinklered. The existing opening at the level of the 35th floor is protected by close-spaced sprinklers in conjunction with a heat baffle. The new opening through the 34th floor will be similarly protected.

Smoke detectors connected to the building's fire alarm system, will be installed around both the new and existing opening. The activation of the smoke detectors will be aided by the heat baffle at the ceiling of the 33rd and 34th floors.

Building Official's Position

1. The allowable 10 square metre opening is more than adequate for a regular stair, although Sentence 3.2.9.1.(7) does not address stationary stair. It is inappropriate to compare the escalators with the fixed stair, as their slopes vary tremendously, i.e. their run and rise.

2. The proposed smoke detectors do not reduce the amount of smoke going up a larger opening than ten square metres, especially when the fire occurs at the bottom of the stair.

3. The Department of Buildings and Inspections does not have the authority to allow the excessive deviation.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #84-21-149 meets the intent of the Code with respect to Life Safety.

Reasons

The proposed opening between floors 33 and 34 of this 36-storey building will result in interconnection of floors 33, 34 and 35. The openings will be protected by:

(a) close-spaced sprinklers in accordance with NFPA-13;

(b) smoke baffles in accordance with NFPA-13;

(c) smoke detectors at perimeter.

Also this interconnected space is located near the top of the building and therefore above the neutral plane. Air Handling Systems automatically shutdown upon activation of the fire alarm.

The building is fully sprinklered.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#85-1-79
21 May 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

A. Laumans
Kleiwarenfabrieken Gebr. Laumans B.V
Steenweg 3
5932 AC Tegelen
The Netherlands

AGENT:

Great Lakes Brick & Stone Limited
P.O. Box 1232
602 Grand Avenue East
Chatham, Ontario
N7M 5R9

ON THE SUBJECT OF:

Laumans Clay Roof tile system used on pitched roofs of building structures.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/...

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6.(1) All aspects of the Ontario Building Code Part 9 or Part 4 as applicable shall be complied with for new and existing roof support framing, rafters, trusses, sheathing, underlay and flashings, as designed to the recommendations of the manufacturer and his agent.

(2) For Part 9 buildings where Ontario Building Code design tables are used the roof design load shall be increased by 0.5 KN/m (10 lbs/sq. ft.) to allow for the weight of the roof tiles.

7. For existing roofs the structural adequacy of the roof framing and the supporting walls shall be certified by a Professional Engineer registered in the Province of Ontario.

8. Construction of this clay tile roof system as noted above shall comply with the published literature of Laumans and Great Lakes Brick & Stone Limited as submitted with the application and entitled "Report to Building Code Evaluation Commission" for the use of Laumans Clay Roofing Tiles, by Thames Valley Engineering Inc. Professional Engineers, Project 84-44, dated March 1985.

DATED at Toronto this 21st day in the month of May in the year 1985 for authorization # 85-1-79 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

INDUSTRIAL BUILDING
SPRINKLER SYSTEM

B.C.C. #85-1-150
11 April 1985

General Description of Project

A one-storey plant of 8,703 sq. meters, completely sprinklered (65-zone system connected to local Fire Department) with the exception of the furnace areas. The plant faces three streets complete with three street exits. The plant produces and warehouses completely non-combustible aluminum castings, using electrical open smelter type furnace. The plant is completely enclosed by fence, has an in-house fire department and provides 24 hours a day, 7 days a week security supervision. A new 719 sq. meter single-storey addition constructed with a non-combustible steel building system is proposed to cover an additional furnace and an additional warehouse area. This new furnace is adjacent to the existing furnaces.

Reason for Application

The O.B.C. Reg. 583/83, Sentence 3.2.2.48.(1) applies requiring either a sprinkler system or a 4-hour fire separation between the new and existing building. The Building Code does not provide for this particular manufacturing process.

Applicant's Position

In light of the above-mentioned fire-safety features and since a sprinkler system would create a substandard safety hazard because water contacting the furnace would result in explosion, the Applicant wishes to be exempted from a sprinkler or a 4-hour fire wall at this addition.

Building Official's Position

The Building Code does not address this particular plant production.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-1-150 in the matter regarding the new addition to the plant has sufficiency of compliance with the Ontario Building Code.

Reasons

The new non-combustible building as proposed does not prejudice life safety and the combustible contents are minimal.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#85-2-80
16 October 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Fiberglas Canada Inc.
3080 Yonge Street
Toronto, Ontario
M4N 3N1

ON THE SUBJECT OF:

(a) BASECLAD EBWI, system of exterior above or below grade basement wall insulation.

(b) GLASCLAD, system of exterior above grade, non-structural, insulating wall sheathing.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/...

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. BASECLAD EBWI system shall be installed only so long as CMHC Evaluation Report No. 09860 dated 82-01-15, revised on 84-06-25 has not been withdrawn.

7. GLASCLAD system shall be installed only so long as CMHC Evaluation Report No. 08900 dated 82-03-17, revised on 84-06-10 has not been withdrawn.

8. GLASCLAD installed on the exterior in conformance to manufacturer's instructions with TYVEK facing and joints taped with Y-8086 Contractor Sheathing Tape CMHC Report No. 10418), may be in lieu of the required building paper.

9. Installation and materials shall be in accordance to the published instructions of the manufacturer as submitted to the COMMISSION to date of this AUTHORIZATION.

DATED at Toronto this 16th day in the month of October in the year 1985 for authorization # 85-2-80 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

CONVENIENCE STAIRWAYS

B.C.C. #85-2-151
11 April 1985

General Description of Project

A convenience stairway which connects the first floor lobby of a five-storey office type building to a restaurant located in a cellar providing normal access for the public. The stairway consists of three flights of stairs including a 2-riser lower flight.

Reason for Application

O.B.C. Reg. 583/83, Article 3.4.8.3. requires every flight of interior stairs to have at least 3 risers.

Applicant's Position

While the stair in question is in general use by the public as the major entrance to the restaurant, it is a convenience stair only, and not an exit stair in terms of the Code. Exit stairs in full compliance with the Code are located elsewhere in the restaurant.

The original permit drawings indicates 3 risers on the lowest flight of stairs, however, the as-built condition of the stair opening did not permit the third riser while maintaining the minimum Code headroom. Alternative solutions resulting in an 'L' shaped stair, created an unsatisfactory restaurant entrance because the arrangement would result in customers having to turn 180 degrees at the foot of the stairs in order to enter the restaurant proper, and would be detrimental to the flow of entry. The flow of entry is considered vital to the success of the restaurant.

Building Official's Position

The requirement for at least 3 risers in any exterior stair flight is applicable not only to required exits but also to stairways through which the public is normally admitted according to Sentence 3.4.1.1.(4) of the Code. Furthermore the 2-riser stair flight has not been constructed in accordance with the permit drawings because 3 risers were indicated and approved at the lower stair flight. The incidence of stair related accidents is very high. Since this case involves a restaurant in which alcoholic beverages are served the chance of accident is augmented.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-2-151 has sufficiency of compliance with the Ontario Building Code provided that the following proposals are implemented:

(1) A continuous tubular handrail complete with extension is erected on both sides of the subject stairway for the full height of the 3 flights of stairs.

(2) An immediate tubular handrail is erected on the bottom flight of stair.

(3) A reflective or contrasting coloured permanent nosing is applied to the 3 flights of stairs.

Reasons

The above proposals satisfy the life safety intentions of the Ontario Building Code.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#85-3-81
21 May 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Leslie Bros. (1966) Limited
70 Production Drive
Scarborough, Ontario
M1H 2X8

ON THE SUBJECT OF:

Kitchen exhaust and filtration system with or without heat reclaim unit for supply return air make up to kitchen area only.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/...

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. The kitchen exhaust duct beyond the fire damper located on the exhaust side of the filtered unit may be installed in accordance with the Ontario Building Code 6.2.3. when it passes directly to atmosphere and not through any fire separation.

7. Installation and maintenance shall comply with the application dated 2 May 1985, and proposal as submitted by the applicant titled, "Specifications Sheets for Series 85; Models 23, 24, 25 for Commercial Kitchen Exhaust," dated 8 April 1985 which include drawings #1 to #7 inclusive.

8. The tempered supply return air duct system shall be installed in accordance with the Ontario Building Code Subsection 6.2.3. and discharge only to the kitchen area. There shall be a fire damper in this supply return air duct at the reclaim unit.

9. Where a heat reclaim unit is used with gas fired kitchen cooking equipment, the heat reclaim unit shall have separate air streams for exhaust to outside of the building and the make up air system to only the kitchen area.

10. This authorization does not include any gas or liquid fired make up air units, any such units may be separately approved by the Fuels Safety Branch.

11. Except as noted above the entire system shall conform to NFPA 96-1980.

DATED at Toronto this 21st day in the month of May in the year 1985 for authorization # 85-3-81 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

VENTILATION OF COMMERCIAL COOKING EQUIPMENT

B.C.C. #85-3-152
15 July 1985

General Description of Project

A hospital kitchen where one end of a kitchen exhaust hood has been installed against a drywall partition of gypsum board.

Reason for Application

O.B.C. Reg. 583/83, Sentence 6.2.2.3.(4) requires that systems for the ventilation of commercial cooking equipment shall be designed, constructed and installed to conform to NFPA 96-1978 which specifies that the kitchen exhaust hood shall be 18" from combustible materials.

Applicant's Position

It is the Applicant's contention that the exhaust hood is a sophisticated water wash type hood of all stainless steel construction. Although the paper on the drywall is combustible, a drywall partition could not be considered combustible given that drywall is used for fire rated partitions. Further, the Building Code presently has regulations in place regarding flame spread. The kitchen space is heavily sprinklered beyond Code requirements and the exhaust hood has a fire protection system.

Building Official's Position

Sentence 6.2.2.3.(4) of the Code must be met by the Applicant. Gypsum board is regarded as combustible material because of the paper finishes. Data from the NFPA-96 Interpretation Committee suggests authorities should enforce the 18" clearance or suitable alternative protection.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-3-152 demonstrates sufficiency of compliance with the Ontario Building Code.

Reasons

The measures taken include:

(a) the exhaust hood contains a fire protection system;

(b) the kitchen is fully sprinklered;

(c) the ceramic tile surround provides adequate fire stopping.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#85-4-82
16 October 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

American Chimney Lining Systems Inc.
9797 Clyde Park SW
Byron Centre
Michigan, U.S.A.
49315

ON THE SUBJECT OF:

SOLID/FLUE, a chimney liner to line/reline residential masonry chimneys with a lightweight, insulating material.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/...

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS

6. This authorization is limited to the Ontario Building Code, Part 9 buildings where the flue is for the use of solid fuel only and where the chimney is in a good state of repair. (Note: Gas and liquid fuel appliances are regulated separately by the Fuels Safety Branch and a separate application may be made to them.)

7. Protection from the elements shall conform to O.B.C. Subsection 9.20.17. Installation shall be done by the manufacturer's trained personnel only.

8. This chimney liner shall have a minimum thickness of 16 mm (5/8 inches) and shall not negate the Code requirements for flue sizes of chimney construction.

9. The lined chimney shall be capped by the use of a circular flue tile extending not more than 100 mm (4 in.) above a precast waterproof concrete cap which has a sloping top and overhangs the chimney by a least 50 mm (2 in.) with drip edges cast into the concrete cap not less than 25 mm (1 in.) from the face of the chimney, or a stainless steel cap with formed drip edges.

10. Installation and materials shall be in accordance to the published instructions of the manufacturer as submitted to the COMMISSION to date of this AUTHORIZATION.

DATED at Toronto this 16th day in the month of October in the year 1985 for authorization # 85-4-82 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

REQUIRED FIRE SEPARATION FOR EXITS

B.C.C. #85-4-153
15 July 1985

General Description of Project

A two-storey partially enclosed Mausoleum constructed of solid poured concrete in a local cemetery. On the first floor there is a small chapel area as well as a vault area. The exit stairs for the second floor are open and lead through the chapel area.

Reason for Application

O.B.C. Reg. 583/83, Sentence 3.4.1.1.(1) requires that exit facilities must be provided in accordance with the Section to a suitable open space. Sentence 3.4.5.1.(1) specifies that every exit shall be separated from the building it serves by a fire separation in accordance with the O.B.C.

Applicant's Position

The Applicant maintains that the principal reason that enclosure of the stairs as required by the Code is for fire protection, and that since the Mausoleum has no heating furnace and very little electrical the risk of fire is minimal. Further, the Applicant asserts that as all wall and ceiling finishes are exposed concrete, all conduit is encased in concrete and thus nothing in the building is combustible. In addition, if a visitor fell down the stairs he/she could not be easily seen from another part of the building unless the stairwell was specifically checked. Finally, the Applicant asserts that aesthetically it would be preferable if the stairs were uncovered allowing visitors to look into the area as they desired.

Building Official's Position

An exit shaft must be provided for the second floor of the building to conform with Sentence 3.4.1.1.(1), and the required exit shaft must be constructed as a fire separation having minimum 3/4-hour fire resistance rating to conform with Sentence 3.4.5.1.(1) of the Code.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that application #85-4-153 does not conform to the requirements of the Ontario Building Code.

Reasons

The Building Code is specific on the requirements for enclosure of exits.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#85-5-83
7 November 1986

IN THE MATTER OF Section 18(4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Cresent Engineering Ltd.
2489 - 123A Street
White Rock, B.C.
V4A 6M7

ON THE SUBJECT OF:

Galvanized steel anchor staps to be used for securing wood sill plates to concrete walls in lieu of anchor bolts.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminted, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

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4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. Installation of the anchor straps shall conform to the manufacturers installation instructions and recommendations.

7. The anchor straps shall be constructed of a minimum of 26 (.020")gauge galvanized steel with 114 mm (4½ in.) by 38 mm (1½ in.) corrugated section for embedding into the concrete, the zinc coating shall be a minimum thickness of 0.025 mm.

8. The exposed two tangs of the anchor strap shall be of sufficient length to overlap the topside of the sill plate or a minimum of 101 mm (4 in.) vertically on both sides of the sill plate and or the stud.

9. The anchor strap shall be installed at 914mm (3 ft.) on centre, or a minimum of two anchor straps per sill plate length when less than 914 mm (3 ft.) in overall length. Location of the anchor strap to be approximately centre of the area where the sill plate is located.

10. Four galvanized nails with minimum gauge as 63 mm (2½ in.) common nails and with a minimum length of 38 mm (1½ in.) shall be used in the holes provided in the tangs of the anchor straps.

11. Each anchor strap shall be stamped with the Canadian Patent number 950698 for identification by inspectors.

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12. This authorization shall be further limited to buildings for which a permit is applied for prior to 31 December 1989. However, six months prior to 31 December 1989, the applicant shall submit to BMEC a list of all buildings where the anchor straps have been used in Ontario and at least three names of independent test agents. Whereupon, at the applicants expense the B.M.E.C. will choose several buildings and one test agent to prepare a report on the status of the anchor straps.

13. The building official with reasonable cause may take away samples of the galvanized steel anchor strap at any time to be tested as specified in the above paragraphs of this authorization. This testing shall be done by an independent test agency at the expense of the applicant.

DATED at Toronto this 7th day in the month of NOVEMBER in the year 1986 for authorization # 85-5-23 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

HOLD-OPEN DEVICES ON FIRE DOORS
IN CORE CORRIDOR

B.C.C. #85-5-154
16 July 1985

General Description of Project

Renovation to the ground floor of a 7-storey office building. The tenants on this floor are primarily dentists and doctors. There are 2 fire doors in an existing 4'-0" egress corridor.

Reason for Application

O.B.C. Reg. 583/83, Sentence 3.1.6.7.(2) allows the installation of hold-open devices on specific closures where "the safety of the occupants is not endangered thereby". Sentence 3.1.6.7.(5) states that hold-open devices may be installed on buildings up to 3 storeys under certain conditions.

Applicant's Position

There is continuous traffic through the doors in question. Handicapped users have to get through these doors to get to the washrooms, doctors offices and/or parking lot. This is very difficult to do unassisted since there is no room to move sideways to open the door. For one-hour fire rated doors the glass opening can only be 645 cm^2 so that visibility of oncoming traffic is poor for handicapped and non-handicapped alike. The applicants believe that the way to reduce the danger to people caused by blocking the corridor with these doors and to facilitate traffic flow is to have them open with an electronic smoke detector and firealarm connected hold-open device.

Building Official's Position

The installation of such devices on the doors in question does not comply with Sentence 3.1.6.7.(5) in that the doors are exit doors and the building height in excess of the 3-storey height permitted. Furthermore, Sentence 3.1.6.7.(2) only permits the installation of hold-open devices on specific closures where "the safety of the occupants is not endangered thereby". In the particular case the means of egress is deficient by current code standards and would be further reduced by the installation of the hold-open devices. Both upper stairways would discharge through a common atmosphere, subject to possible contamination during a fire condition resulting in no alternative means of egress for the entire building population.

Commission Ruling

In favour of the applicant. It is the decision of the Building Code Commission that application #85-5-154 demonstrates sufficiency of compliance.

Reasons

In this particular instance, the safety of the occupants will not be further reduced by the installation of authorized, electro-magnetic devices designed to be released by both smoke detectors and the building fire alarm system.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#85-6-84
11 December 1985

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Thermo-cell (1983) Limited
3268 Hawthorne Road
Ottawa, Ontario
K1G 3W9

ON THE SUBJECT OF:

Cellulose fiber loose fill thèrmal insulation as applied to horizontal surfaces in Part 9 buildings of the Ontario Building Code.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

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5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. The applicable standard to be used for this cellulose fiber insulation shall be the 51-GP-60M April 1979 as published by the Canadian Government Specifications Board.

7. On the commencement of each installation a valid C.M.H.C. Evaluation Report Number shall be attached to the label referenced in paragraph 6.2 of the C.G.S.B. Standard 51-GP-60M April 1979, along with a suitable label indicating the applicators name and address. All of these labels shall be posted to a roof structural member beside the attic hatch or entrance.

8. Where cellulose insulation is installed, the following other requirements must comply:

   (a) protection around recessed ceiling light fixtures (pot lights) and exhaust fans shall comply with Ontario Hydro regulations and bulletins;

   (b) firestop spacer and radiation shields shall be installed at the ceiling in accordance with the appropriate standards for gas vents and factory-built chimneys.

9. The manufacturer shall allow entry to the office, processing plant and warehouse by any of those agencies as mentioned in the above paragraph number 7, as well as Consumer and Corporate Affairs, in order to conduct inventory audits and take samples of products of production and those in storage. Any discrepancy in product quality which may necessitate either a product re-call or the de-certification of the manufacturer must be immediately made known by registered mail to all those agencies in paragraphs 6 to 9 also the applicable Municipalities and the Building Materials Evaluation Commission.

DATED at Toronto this 11th day in the month of December in the year 1985 for authorization # 85-6-84 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

TERMINATION OF AUTHORIZATION

B.M.E.C.#85-6-84
11 December 1985

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980

AND IN THE MATTER OF AUTHORIZATION TO:

Thermo-cell (1983 Limited)
3268 Hawthorne Road
Ottawa, Ontario
K1G 3W9

ON THE SUBJECT OF:

Cellulose Fibre Insulation

SHALL BE TERMINATED AS FOLLOWS:

Subject to paragraph one and five of the Authorization, no further installations shall be made as of the date of this termination.

REASONS:

The newly amended Ontario Building Code, Ontario Regulation 419/86, becomes effective on 20th October 1986 and the subject matter is now included in Article 9.26.3.3., therefore there is no need for a B.M.E.C. authorization.

MOVED AND ADOPTED THIS 7 November 1986 BY THE BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

PRIVATE POOL AS GROUP A2 OCCUPANCY

B.C.C. #85-6-155
16 July 1985

General Description of Project

This complex consists of two high-rise Group C condominiums. These condominiums are connected above ground by a recreation centre and are connected below ground by a parking garage.

The recreation centre is separated from the condominiums by 2-hour firewalls. The parking garage is separated from the high rise condominiums by a 2-hour fire rated floor slab in accordance with Article 3.2.1.3. of the Ontario Building Code (Ontario Regulation 583/83 revised to 549/84) and by the use of pressurized vestibules as required by Sentence 3.2.6.2.(9) of the O.B.C. in accordance with Measure N of the Supplement to the National Building Code of Canada.

The underground levels, including the pool area, and the grade level lobby are provided with complete automatic sprinkler protection.

Reason for Application

O.B.C. Reg. 583/83, Sentence 3.2.9.1.(8)(c) states that an interconnected floor space need not conform to the requirement of Articles 3.2.9.2. to 3.2.9.10. provided the interconnected floor space is classified as Group A Division 1 or 2, Group D or Group E major occupancy. Article 3.1.2.1. sets out the classifications of buildings.

Applicant's Position

The design of the pool, the lobby and the recreational area will provide a level of life safety equal to or greater than the level of protection required by Sentence 3.2.9.1.(8) of the Ontario Building Code. Although the pool will be open to the grade level lobby, these areas will be provided with automatic sprinkler protection in addition to the following items which exceed the protection required by Sentence 3.2.9.1.(8):

- Non-rated fire separation between the pool and the grade level lobby;
- Non-rated fire separation between the pool and the Level 1B recreational area;
- Separation of all mechanical pool equipment from the interconnected floor space;
- Separate exits from the pool area directly to the exterior of the building;
- Exits for the recreational area do not lead through the pool area;
- Security guard will be in the lobby area on a 24-hour per day, 7-day per week basis.

Building Official's Position

The design does not conform with the Code.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-6-155 demonstrates a sufficiency of compliance with the Ontario Building Code.

Reasons

The Commission members consider that the pool area is an ancillary use to the recreation centre on the floor above and therefore for the purposes of Sentence 3.2.9.1.(8) only (interconnected floor spaces) the pool area may be considered as an A2 occupancy:

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

AMENDED
#85-7-85
7 November 1986

IN THE MATTER OF SECTION 18 (4) (b) of the Building Code
Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Rolf Jensen & Associates Limited
797 Don Mills Road
DON MILLS, Ontario
M3C 1V2

ON THE SUBJECT OF:

A window sprinkler assembly system to provide a two-hour fire resistance rated separation in a wall to consist of tempered glass fixed in a hollow metal steel frame or extruded aluminum frame and a special sidewall window sprinkler with quick response action.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

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4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable, any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This window sprinkler assembly system shall be designed, engineered, inspected and verified by Rolf Jensen and Associates Limited. A document of certification with Professional Engineer's (authorized in Ontario) stamp shall be forwarded to the Chief Building Official and the Building Owner(s).

7. The sprinkler system shall be installed, and tested in accordance with N.F.P.A. 13 as a wet pipe system and maintained in accordance with Section 6.5. (sprinkler) of the Ontario Fire Code.

8. The special designed sprinkler head shall be designated as a horizontal sidewall window nozzle, Grinnell Canada Fire Protection Company Limited model FR-1/Q-60, 12.7 mm (1/2 in.) orifice, 72 ^{o}C (165 ^{o}F) activation temperature quick release link. The optimum position of the sprinkler head shall be as determined by the tests submitted in the submission by Rolf Jensen to this Commission.

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9. The interior glazing shall consist of one sheet of fixed non operable tempered glass installed in a hollow metal steel frame of 16 gauge or extruded aluminum 3 mm (1/8 in.) thick (Alcan 6063-T5). The maximum glazing shall be 1680 mm (5 ft. 6 in.)wide by 2590 mm (8ft. 6 in.) high and minimum 6 mm (1/4 in.) thick tempered glass.

10. This system may be used as an exterior or interior fire separation. Interior installations shall be made by installing the window sprinkler on both sides of the window.

11. Interior or exterior installations may be made in all types of occupancies except Group F, Division 1 and shall not be used in a firewall. Should the system be located in a loadbearing wall, all loadbearing components shall be protected independently of this window sprinkler assembly system.

12. This system may be used in either a sprinklered or unsprinklered building.

13. This horizontal sidewall window sprinkler system shall be served by either a separate riser or separate cross main independent of any regular sprinkler or standpipe system serving the floor area.

14. Separate flow switches or alarm check valves and supervised control valves and each fire compartment on each system shall be electrically supervised and indicated separately at the fire/sprinkler alarm annunciator panel.

15. Where the water supply is from a standpipe system conforming to the Code, the siamese connection shall be labelled as per the standard except for this dual purpose which shall read "STANDPIPE AND SPRINKLERS".

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16. A noncombustible sign legibly printed in not less the 12.7 mm (1/2 in.) block letters with contrasting white background and red letters shall be permanently mounted and maintained beside the main water supply source to this window sprinkler assembly system to indicate:

WARNING

SPECIAL SPRINKLER HEADS ON THIS SYSTEM ARE AN INTEGRAL PART OF WINDOW FIRE SEPARATION. THIS WATER SUPPLY MAY ONLY BE SHUT OFF AFTER ALL THE PROPER AUTHORITIES HAVE RECEIVED NOTICE IN WRITING.

DATED at Toronto this 7th day in the month of NOVEMBER in the year 1986 for authorization # 85-7-85 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

FIRE SEPARATION REQUIREMENTS
WHERE DIFFERENT OCCUPANCIES

B.C.C. #85-7-156
30 July 1985

General Description of Project

A two-storey building of 27,894 square feet facing one street with Group D "Office" and Group F Division 2 "Medium Hazard" occupancies. All floor areas are sprinklered throughout and at 6 feet centres along both sides of the atrium.

Reason for Application

O.B.C. Reg. 583/83, Sentence 3.1.3.1.(3) requires the second floor assembly in the building to be constructed as a 3/4-hour fire separation based on the most restrictive major occupancy construction requirements (Group F Division 2).

Applicant's Position

The requirement in Sentence 3.1.3.1.(3) of the Building Code is a general rule which is intended to provide physical construction requirements in buildings to ensure that persons on the second floor will be separated from the highest fuel loads anticipated for the floor below. Sentence 3.1.3.1.(3) does not recognize fire separations when determining construction requirements because as a "general rule" it may not be appropriate to do so. However, in view of the additional fire protection being provided in this building which includes the close-spaced sprinklers along the edge of the atrium, the fire hose protection available in the Group F Division 2 occupancy floor space and the 1-hour vertical fire separation being provided in lieu of the 3/4-hour horizontal fire separation required, it is the Applicant's position that the occupants on the west section of the second floor assembly will be provided with a level of life safety equivalent to that intended by the construction requirements in the Building Code.

Building Official's Position

Sentence 3.1.3.1.(3) requires any building with multiple occupancies to be classified according to the most restrictive major occupancy for Subsection 3.2.2. purposes. The only exception to this is outlined in Sentence 3.1.3.1.(6) and has no application to the instant case.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-7-156 demonstrates sufficiency of compliance with the Ontario Building Code.

Reasons

1. The F2 area is a subsidiary occupancy.

2. The F2 area is separated by 1-hour fire rated walls and ceiling.

3. The entire building is sprinklered and the F2 area has an additional fire hose cabinet.

4. Also access to the F2 area has been restricted for security reasons.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#85-8-86
15 March 1986

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF an application by:

Dow Chemical Canada Inc.
3035 Orlando Drive
Mississauga, Ontario
L4V 1L6

ON THE SUBJECT OF:

(a) Exterior foamed plastic or mineral wool based insulation and finish system with open weave glass fiber fabric, embedded in a copolymer based synthetic or polymer based cementicious ground coat and finished with a synthetic ready mixed acrylic based texture wall coating of integral color for the exterior of a building wall.

(b) Exterior finish system as outlined in (a) paragraph above and applied to masonry, concrete or exterior drywall surfaces of a building's exterior wall.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

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4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This exterior foamed plastic insulation system is not noncombustible and shall not be used as a structural element.

7. Exterior foamed plastic insulation system when protected on the interior side by a thermal barrier in conformance to the Ontario Building Code, may be used as a combustible element permitted in noncombustible construction.

8. (a) The insulation shall have a flame spread rating classification as required by the Ontario Building Code to determine the interior thermal barrier. The flame spread and the manufacturer's name shall be clearly marked on the insulation.

   (b) No additives such as rapid binders, anti freeze, accelerators etc. shall be added to any component unless specified by the manufacturer.

9. The finish materials shall cover all the exposed surfaces of the insulation and shall remain in place for at least 15 minutes when tested in conformance with ULC S101-1977 or CAN 4-S101-M82.

10. Each installation shall conform to the manufacturer's installation instructions and shall be reviewed in detail, stamped and signed for construction as specified by the manufacturer's listed trained personnel. Identification cards for installers shall be issued only to qualified trained personnel listed by the manufacturer.

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Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

FIRE SEPARATION REQUIREMENTS
WHERE DIFFERENT OCCUPANCIES

B.C.C. #85-8-157
30 July 1985

General Description of Project

A fully sprinklered one-storey building having an area of approximately 3200 m^2 and consisting of two major occupancies. The main mercantile area and subsidiary service and storage area comprise the Group E major occupancy at the north section of the building. The south part of the building consists of a two-level parking garage, Group F Division 3 major occupancy, with one level below grade open-to-the-air and one level of on-grade parking. A pair of non-rated, automatic sliding doors are installed between the basement foyer and the parking garage.

Reason for Application

O.B.C. Reg. 583/83, Sentence 3.1.3.1.(3) stipulates that where there is more than one major occupancy, the requirement of Subsection 3.2.2. for the most restricted major occupancy shall apply to the whole building. Sentence 3.3.7.7.(12) requires that a storage garage be separated from other occupancies by a 1½-hour fire separation.

Applicant's Position

Based on the provision of the following building design features and fire protection measures, compliance with the life safety intent of the Code is achieved:

- non-rated sliding door fire separation between the parking garage and the lobby protected by close-spaced sprinkler protection of the garage floor area adjacent to the fire separation,

- 30 ft. wide circulation area provided between the fire separation and the nearest parked vehicles,

- 25 ft. wide spatial separation provided between the mercantile occupancy and the parking garage by the sprinklered and pressurized main lobby, and

- the the natural smoke exhaust characteristic of the garage roof opening.

The effectiveness of the aforementioned building design features and fire protection measures in preventing flame and smoke spread from a fire condition in the parking garage to the adjacent mercantile occupancy, is supported by their examination with respect to results of parking garage fire tests and conclusions of parking garage fire surveys as presented to the Commission.

Building Official's Position

The sliding door fire separation between open-to-the-air, below-grade parking garage and the retail stores, is not constructed in conformance with the Code requirement mandating a 1½-hour fire resistance rating.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-8-157 demonstrates sufficiency of compliance with the Ontario Building Code.

Reasons

1. Close-spaced sprinkler protection of the garage area floor adjacent to the sliding door fire separation.

2. The vestibule is pressurized at all times.

3. The vestibule doors are equipped with fail-safe operating hardware wired directly to the fire alarm system.

4. The building is fully sprinklered in accordance with NFPA-13.

5. The garage roof and wall openings offer natural smoke exhaust capability.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION #85-9-87
BY THE 15 March 1986
BUILDING MATERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF an application by:

Sto Industries Inc.
Quality Lane
Box 219
RUTHLAND, VT
05701

ON THE SUBJECT OF:

(a) Exterior foamed plastic or mineral wool based insulation and finish system with open weave glass fiber fabric, embedded in a copolymer based synthetic or polymer based cementicious ground coat and finished with a synthetic ready mixed acrylic based texture wall coating of integral color for the exterior of a building wall.

(b) Exterior finish system as outlined in (a) paragraph above and applied to masonry, concrete or exterior drywall surfaces of a building's exterior wall.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

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4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This exterior foamed plastic insulation system is not noncombustible and shall not be used as a structural element.

7. Exterior foamed plastic insulation system when protected on the interior side by a thermal barrier in conformance to the Ontario Building Code, may be used as a combustible element permitted in noncombustible construction.

8. (a) The insulation shall have a flame spread rating classification as required by the Ontario Building Code to determine the interior thermal barrier. The flame spread and the manufacturer's name shall be clearly marked on the insulation.

   (b) No additives such as rapid binders, anti freeze, accelerators etc. shall be added to any component unless specified by the manufacturer.

9. The finish materials shall cover all the exposed surfaces of the insulation and shall remain in place for at least 15 minutes when tested in conformance with ULC S101-1977 or CAN 4-S101-M82.

10. Each installation shall conform to the manufacturer's installation instructions and shall be reviewed in detail, stamped and signed for construction as specified by the manufacturer's listed trained personnel. Identification cards for installers shall be issued only to qualified trained personnel listed by the manufacturer.

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11. Except where a building face is adjacent to a street, the building face shall have a minimum limiting distance of

(a) 6 m (20 ft.) for buildings up to and including seven storeys in building height, and

(b) 12 m (40 ft.) for buildings exceeding seven storeys in building height, and

(c) building height shall be as defined by the Ontario Building Code.

DATED at Kingston this 15th day in the month of March in the year 1986 for authorization #85-9-87 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

HYDRAULIC PASSENGER ELEVATOR
WITHIN EXIT ENCLOSURE

B.C.C. #85-9-158
26 September 1985

General Description of Project

A recently constructed two-storey commercial building which is fully sprinklered. The building has two properly enclosed exit staircases. The owner proposed the construction of an hydraulic passenger elevator together with elevator machine room within one of the exit enclosures.

Reason for Application

O.B.C. Reg. 583/83 Sentences 3.4.5.2.(1), (5) and (6) and Clause 3.4.5.1.(5)(g) prohibits the construction of the elevator and machine room in the proposed location.

Applicant's Position

Sentences 3.4.5.2.(1) and (5) expressly prohibit the proposed design.

If a portion of the space is a "lobby" as noted on the plans, Clause 3.4.5.1.(5)(g) is also contravened as no fire separation has been provided between the exit and the lobby.

Provided the hydraulic machine room is totally separated from the elevator as a 3/4-hour rated fire separation and the door from the machine room opens into an access to exit, and not directly into the exit, there is no fire safety reason why what is proposed should not be acceptable.

Building Official's Position

Clause 3.4.5.1(5)(g) applies to the exit door leading from the floor area into the lobby. The installation of the elevator is not affecting this requirement.

Sentences 3.4.5.2.(1), (2) and (3) do not apply to this situation. The elevator is providing means of access to and egress from the upper storey (for physically disabled persons) and the integrity of the exit is not affected by this.

An elevator shaft (up to railing height of the upper storey) is only required for safety reasons (to the public) by the "SAFETY CODE ELEVATING DEVICES FOR THE HANDICAPPED". The standard does require that the machinery to operate the device be safeguarded from the public but it would seem rather unreasonable to consider the space in which a 2-horse power electric motor is located a machine room.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-9-158 meets the intent of the Code.

Reasons

While the location of the elevator and its machine room is in technical violation of the Code, the proposal does not prejudice the fire safety of the project as submitted.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#85-10-88
15 March 1986

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF an application by:

Outsulation System, Ltd.
205 Toryork Drive
Weston, Ontario
M9L 1Y2

ON THE SUBJECT OF:

(a) Exterior foamed plastic or mineral wool based insulation and finish system with open weave glass fiber fabric, embedded in a copolymer based synthetic or polymer based cementicious ground coat and finished with a synthetic ready mixed acrylic based texture wall coating of integral color for the exterior of a building wall.

(b) Exterior finish system as outlined in (a) paragraph above and applied to masonry, concrete or exterior drywall surfaces of a building's exterior wall.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

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4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This exterior foamed plastic insulation system is not noncombustible and shall not be used as a structural element.

7. Exterior foamed plastic insulation system when protected on the interior side by a thermal barrier in conformance to the Ontario Building Code, may be used as a combustible element permitted in noncombustible construction.

8. (a) The insulation shall have a flame spread rating classification as required by the Ontario Building Code to determine the interior thermal barrier. The flame spread and the manufacturer's name shall be clearly marked on the insulation.

   (b) No additives such as rapid binders, anti freeze, accelerators etc. shall be added to any component unless specified by the manufacturer.

9. The finish materials shall cover all the exposed surfaces of the insulation and shall remain in place for at least 15 minutes when tested in conformance with ULC S101-1977 or CAN 4-S101-M82.

10. Each installation shall conform to the manufacturer's installation instructions and shall be reviewed in detail, stamped and signed for construction as specified by the manufacturer's listed trained personnel. Identification cards for installers shall be issued only to qualified trained personnel listed by the manufacturer.

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11. Except where a building face is adjacent to a street, the building face shall have a minimum limiting distance of

(a) 6 m (20 ft.) for buildings up to and including seven storeys in building height, and

(b) 12 m (40 ft.) for buildings exceeding seven storeys in building height, and

(c) building height shall be as defined by the Ontario Building Code.

DATED at Kingston this 15th day in the month of March in the year 1986 for authorization #85-10-88 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

BUILDING CODE AND
MUNICIPAL BY-LAW

B.C.C. #85-10-159
26 September 1985

General Description of Project

An industrial site plan containing various buildings including locations of fire hydrants.

Reason for Application

Although the site plan submitted to the building inspector for approval met the minimum requirements of the O.B.C. Reg.583/83 Sentences 3.2.5.2.(3) and 3.2.5.2.(4), the Respondent has adopted a by-law which creates obligations more stringent than those of the Building Code.

Applicant's Position

It is the opinion of the Applicant that the site plan indicating the location of fire hydrants, submitted to the building inspector for approval met the minimum requirement of the O.B.C., Sentences 3.2.5.2.(3) and 3.2.5.2.(4). The by-law in question imposes obligations more stringent than the Building Code which will result in delay and increased expense.

Building Official's Position

Subsection 14(1) of the Building Code Act, S.O. 1983, c.51, provides that where there is a dispute between an Applicant and a Building Official in respect of the technical requirements of the Code any party may apply to the Commission to determine the question. Since the dispute is with respect to whether or not a municipal by-law overrules the Code, the Commission does not have the jurisdiction to determine the dispute.

Commission Ruling

In favour of the Applicant. It is the finding of the Building Code Commission with respect to application #85-10-159 that there is in fact no dispute as to the technical requirements of Sentences 3.2.5.2.(3) and 3.2.5.2.(4) of the Ontario Building Code and that the dispute is with respect to other applicable law.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#85-11-89
7 November 1986

IN THE MATTER OF Section 18(4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Gerard Roofing Systems (N.Z.) Ltd.
35 Hunua Road
Papakura, Auckland
New Zealand

AND AGENT:

Gerard Canada
932 Mervin Avenue
Peterborough, Ontario
K9J 5P4

ON THE SUBJECT OF:

Gerard Roofing System, a galvanized sheet steel shaped in various profiles of tile, coated on the exposed side with natural crushed stone chips bonded by a base coat of acrylic resin and clear acrylic overglaze.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminted, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however, it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

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4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. Except as authorized herein all applicable requirements of the Ontario Building Code Act and Ontario Regulation 583/83 shall be met. A copy of this Authorization shall be kept and maintained on the site of construction.

7. When this roofing system is used for noncombustible construction all components and support members shall be of noncombustible materials.

8. Conformance shall be made to a current CMHC Evaluation Report, however, in case of conflict with this authorization the more stringent matter shall prevail.

9. Subject to paragraphs herein this roofing system shall be in accordance with the manufacturer's published instructions and installation shall be by the manufacturer's trained qualified tradespersons.

10. In lieu of wood roof sheathing for this roofing system, wood purlins (battens) may be used.

11. Eave protection except for over unheated garages, carports and porches, shall be laid beneath the starter strip extending from the edge of the roof to not less than 750 mm (30 in.) inside the inner face of the exterior wall and shall consist of;

    (a) No.15 asphalt-saturated felt laid in two plies lapped 480 mm (19 in.) and cemented together with lap cement, or

    (b) Type S smooth surface roll roofing, or

    (c) Self-sealing composite membranes consisting of polyethylene and bituminous materials.

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12. When underlay is provided beneath this roofing system it shall be in compliance with the Code for the materials and the installation shall be in accordance to the manufacturer's recommendations.

13. In addition to paragraphs 11 and 12, positive drainage of the eave protection and the underlay materials shall be made at the lower end.

14. For existing roofs, the structural adequacy of the roof framing and the supporting members shall be examined by a qualified manufacturer's representative and a written, signed and dated certificate shall be attached to the manufacturer's warranty with copies to the building official and owner(s).

15. Voids between existing roofing systems and this new roofing system shall not be filled with insulation.

DATED at Toronto this 7th day in the month of NOVEMBER in the year 1986 for authorization #85-11-89 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

COMBUSTIBLE MATERIALS ON GROUP C HIGHRISE BALCONY

B.C.C. #85-11-160
28 November 1985

General Description of Project

A 27-storey residential apartment building of non-combustible construction contains a wooden trellis and dividing wall constructed of cedar on a concrete balcony. Above the trellis, there is a precast concrete spandrel wall 3 feet in height.

Reason for Application

The existing wood trellis and dividing wall are constructed of a combustible material not permitted in a building required to be of non-combustible construction by Article 3.1.4.5. of the Ontario Building Code, O. Reg. 583/83.

Applicant's Position

The combustibility of the existing cedar wall and trellis will be reduced by the application of a surface applied fire retardant chemical. The resultant flame spread of the wood will comply with the requirements in the O.B.C. for interior finish. The continuing performance of the fire retardant will be ensured by registration of the necessity of its reapplication on the land titles.

The exposure to suites above the trellis and wall is controlled by the presence of the 3 foot concrete spandrel wall. This wall would be adequate for a mercantile type fuel loading which exceeds the fuel loading for a residential type occupancy.

Building Official's Position

Sentences 3.2.2.28.(2) and 3.1.4.5.(1) and (2) prohibit the proposed trellis and wooden dividing wall. Although the Applicant has offered to register the necessity for periodic application of fire retardant paint on title, the Building Official believes that this places an unreasonable burden on the subsequent owner and the Building Official to check the title.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that application #85-11-160 does not meet the requirements nor the intent of the Ontario Building Code.

Reasons

Proposed protection to adjacent suites is considered to be inadequate.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION #85-12-90
BY THE 15 March 1986
BUILDING MATERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Therm-O-Comfort Company Ltd
85 Forest Street
AYLMER, Ontario
N5H 1A5

ON THE SUBJECT OF:

Cellulose fiber loose fill thermal insulation as applied to horizontal surfaces in Part 9 buildings of the Ontario Building Code.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may be written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

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5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. The applicable standard to be used for this cellulose fiber insulation shall be the 51-GP-60M April 1979 as published by the Canadian Government Specifications Board.

7. On the commencement of each installation a valid C.M.H.C. Evaluation Report Number shall be attached to the label referenced in paragraph 6.2. of the C.G.S.B. Standard 51-GP-60M April 1979, along with a suitable label indicating the applicators name and address. All of these labels shall be posted to a roof structural member beside the attic hatch or entrance.

8. Where cellulose insulation is installed, the following other requirements must comply:

   (a) protection around recessed ceiling light fixtures (pot lights) and exhaust fans shall comply with Ontario Hydro regulations and bulletins;

   (b) firestop spacer and radiation shields shall be installed at the ceiling in accordance with the appropriate standards for gas vents and factory-built chimneys.

9. The manufacturer shall allow entry to the office, processing plant and warehouse by any of those agencies as mentioned in the above paragraph number 7, as well as Consumer and Corporate Affairs, in order to conduct inventory audits and take samples of products of production and those in storage. Any discrepancy in product quality which may necessitate either a product re-call or the de-certification of the manufacturer must be immediately made known by registered mail to all those agencies in paragraphs 6 to 9 also the applicable Municipalities and the Building Materials Evaluation Commission.

DATED at Kingston this 15th day in the month of March in the year 1986 for authorization #85-12-90 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

TERMINATION OF AUTHORIZATION

B.M.E.C.#85-12-90
15 March, 1986

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, R.S.O. 1980

AND IN THE MATTER OF AUTHORIZATION TO:

Therm-O-Comfort Company Ltd.
85 Forest Street
Aylmer, Ontario
N5H 1A5

ON THE SUBJECT OF:

Cellulose Fibre Insulation

SHALL BE TERMINATED AS FOLLOWS:

Subject to paragraph one and five of the Authorization, no further installations shall be made as of the date of this termination.

REASONS:

The newly amended Ontario Building Code, Ontario Regulation 419/86, becomes effective on 20th October 1986 and the subject matter is now included in Article 9.26.3.3., therefore there is no need for a B.M.E.C. authorization

MOVED AND ADOPTED THIS 7 November 1986 BY THE BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

STAND PIPE AND HOSE SYSTEMS

B.C.C. #85-12-161
28 November 1985

General Description of Project

A 5,600 square foot expansion to an existing one-storey non-combustible building used as a steel pickling plant.

Reason for Application

Clause 3.2.5.4.(1)(b) and Table 3.2.5.A of the Ontario Building Code (O. Reg.583/83) require that a Group F Division 3 one-storey non-splinkered building exceeding 3,000 square metres requires a stand pipe and hose system.

Applicant's Position

The Applicant maintained that a stand pipe system could endanger personnel in the event of an oil or hydraulic fluid fire (which is the likely type of fire in such an operation) by further spreading such a fire. The pickling solutions of mild acids could be splashed onto personnel by the pressure of a stand pipe and hose system. The owner will install all necessary fire extinguishers and train personnel in the use of fire fighting equipment and methods to extinguish oil based fires.

Building Official's Position

The Building Official had no objection to the Applicant's proposal but lacked the jurisdiction to authorize a variation from the Code.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-12-161 provides a sufficiency of compliance with the Ontario Building Code.

Reasons

The proposed fire protection measures contained in the application, specifically the provision of suitable fire extinguishers, provide adequate life safety.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

EXIT DOOR AND STAIR LANDINGS

B.C.C. #85-13-162
29 November 1985

General Description of Project

A three-storey apartment building.

Reason for Application

The landings on the main and second floor of the three-storey apartment building are in contravention of Sentences 3.4.8.4.(2), 3.4.3.4.(3) and 3.4.8.13.(1) and (2) of the Ontario Building Code (O. Reg. 583/83).

Applicant's Position

The Job Superintendent changed the run of the stairs from 9" to 10" to make the stairs less steep. Consequently, the landings at the top and bottom of the main floor stairs are decreased in size. The stair width is 38" and the main floor landing is approximately 32". These stairs terminate directly in front of an exit door in each location and the swing of the floor exit doors reduces the effective width of landings. The Applicant maintains that although the stairs are in contravention of the Code, the variations do not detract from life safety and further that to remove and replace the existing stairs with ones of a 9" run would not appreciably increase the safe use of those stairs.

Building Official's Position

The first and second floor landings at the north and south stairs were not constructed in accordance with the plans approved for the building permit and are not in conformity with the Code. The Code does not permit the Building Official discretion to allow a non-conformance.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that application #85-13-162 does not comply with the Building Code Regulations.

Reasons

The built condition is an unacceptable interference with the life safety requirements of the Building Code.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

DETERMINATION OF OCCUPANT LOAD FOR UNITS OF EXIT

B.C.C. #85-14-163
29 November 1985

General Description of Project

A specialized children's birthday party centre of approximately 5,000 square feet located in the basement of a former food store. Every party of children is divided into groups of 12 and closely supervised by two adults. There is a P.A. system and sprinklers throughout the area, all exits lead directly outside. There are two existing exit stairs with a total existing exiting capacity of 150 according to Code criteria.

Reason for Application

Clause 3.1.14.1.(1)(c) of the Building Code, O. Reg. 583/83 states that unless an occupant load can be determined to the satisfaction of the Building Official, Table 3.1.14.A to that Clause must be referred to determine the total occupant load and therefore the exit requirements. Two existing exit stairs having a width of 3'6" each, providing a total exit width of 2½ units calculated according to Sentence 3.4.3.2.(3) of the Code, are inadequate for the proposed occupancy according to Table 3.1.14.A.

Applicant's Position

The Applicant calculates that the maximum theoretical occupant load at any given time will be 138 persons but that the actual practical operational use would never exceed 72. Of these only 12 would be adults who would require a full unit of exit. Based on these figures the existing exiting capacity of 150 is adequate.

Building Official's Position

The total exit width of the building is 2½ units which will support a maximum occupancy load of 150 people. The Building Official calculates that the maximum occupant load calculated according to Clause 3.1.14.1.(1)(c) is approximately 220 and therefore the exit stairways are inadequate.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-14-163 demonstrates a sufficiency of compliance with the requirements of the Building Code.

Reasons

The Applicant confirms that the occupant load will not exceed 150 persons, the majority of which number will be young children.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

EMERGENCY LIGHTING IN SUITES

B.C.C. #85-15-164
12 December 1985

General Description of Project

A recently completed two-storey Office/Medical building, wherein, each suite has a common waiting room and interior hallway to the individual offices or examing rooms.

Reason for Application

Clause 3.2.8.3.(1) (a) of the Ontario Building Code (O. Reg. 583/83) stipulates that emergency lighting should be provided to average levels of at least 10 lx at floor or tread level in exits and corridors used by the public and principal routes providing access to exits in an open floor area where such exits, corridors and routes are below grade or are windowless.

Applicant's Position

The Applicant asserts that the waiting rooms and interior hallways of each individual suite do not require emergency lighting because these areas are not an exit; are not corridors used by the public and are not principal routes providing access to exit in an open floor area.

Building Official's Position

The waiting rooms and interior hallways form part of an exit and are corridors used by the public which are windowless, thus invoking the requirements of Clause 3.2.8.3. (1) (a).

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-15-164 meets the requirements of the Ontario Building Code.

Reasons

- Clause 3.2.8.3. (1) (a) requires emergency lighting in "corridors used by the public".

- Public corridors are defined as "a corridor that provides access to exit from one or more suites".

- Suites are defined as "a single room or a series of rooms of complimentary use, operated under a single tenancy".

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SMOKE VENTING OF FLOOR AREAS

B.C.C. #85-16-165
12 December 1985

General Description of Project

A multi-storey condominium containing principally Group C residential occupancies as well as Group D, Group E and Group A Division 2 in the basement and first floors.

Reason for Application

Sentence 3.2.6.5. (1) of the Ontario Building Code (O. Reg. 583/83) states that the "means of venting each floor area to the outdoors shall be provided by windows, wall panels or smoke shafts....". The Building Official requests that a smoke shaft be installed in the building.

Applicant's Position

It is the contention of the Applicant that the present design using in suite openable exterior windows meets the requirements of the Code and that requiring the use of a smoke shaft is beyond the scope of the building inspector's discretion. The suite windows will be identifiable from the interior of the building on all floors and on the exterior of the building on the bottom six floors so that these windows are identifiable to the fire department.

Building Official's Position

1. (a) Article 3.2.6.5. requires means of venting for each floor area.

   (b) Floor area as defined includes the public corridor. Means of venting is not available for the corridor unless the corridor is vented through somebody's dwelling unit or exit stairs.

   (c) Venting is required to comply with Section 3 of Chapter 3 "Measures for Fire Safety in High Buildings" of NRCC No. 17724, The Supplement to the NBC 1980.

2. Section 3, Sentence 2 (c) of the above document requires that the windows, when used for venting, be openable from the interior without the use of wrenches or keys.

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To open the windows for smoke venting purposes from the interior, keys are required to unlock apartment unit doors.

3. The fire department will use an apartment unit for smoke venting only if it has already sustained heavy smoke damage and their operations will not cause further damage. The Intent of Article 3.2.6.5. is to provide venting to aid firefighting. The use of windows in individual apartment units does not meet this intent.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-16-165 meets the requirements of the Ontario Building Code.

Reasons

- Sentence 3.2.6.5. (1) requires "means of venting each floor area to the outdoors by windows, wall panels or smoke shafts".

- By definition floor area means "the space on any storey of a building between exterior walls and required fire walls, including the space occupied by interior walls and partitions".

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

UNPROTECTED OPENINGS AND WINDOW SPRINKLER ASSEMBLIES

B.C.C. #85-17-166
22 January 1986

General Description of Project

A 24-storey condominium apartment building with the south face of the tower being constructed just within the boundary of the property.

Reason for Application

As a result of the proposed position of the building, one unit on floors 4 to 24 will have unprotected openings in the south face wall in excess of the maximum permitted by Sentence 3.2.3.1. (1) of th Building Code (O. Reg. 583/83). Article 2.2.1.4. provides that the results of tests based on test standards other than as described in the Code itself may be used provided such alternate test standards produce comparable results.

Applicant's Position

The Applicant proposes the use of a tested window sprinkler assembly connected to a separate fire stand pipe riser as a form of protection for the glazing. The system will provide the 3/4-hour fire resistance rating for an exterior wall condition required by the Code. The rating has been achieved on the basis of fire tests conducted at the N.R.C. Fire Research Field Station. The window sprinkler assembly will permit the glazed portion of the curtain wall to be considered as a solid separation rather than a closure.

Building Official's Position

The Building Official concludes that providing the test results can be considered comparable in accordance with Article 2.2.1.4. the proposed window/sprinkler protection method meets the performance level set by the Code and should be accepted. However, as pointed out by the consultants "the reliability of the installed assembly is dependent on the quality of the installation of the system and the design of the water supply to the sprinklers providing the active protection". Implicit in the acceptance of such a system is the involvement of design professionals.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-17-166 demonstrates a sufficiency of compliance with the Ontario Building Code, O. Reg. 583/83 for a 3/4-hour fire protection rating on condition that the following proposals are implemented.

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1. The system must be designed, engineered, inspected and verified by Rolf Jensen and Associates Limited and a document of certification with a professional Engineer's stamp shall be forwarded to the Building Official and the owner.

2. The sprinkler system shall be installed and tested in accordance with NFPA 13 as a wet water system.

3. All shut off valves and fire compartments on the sprinkler system shall be electrically supervised and indicated separately at the fire alarm annunciator panel.

4. The siamese connector shall be labelled for dual purposes - "Stand Pipe" and "Sprinklers".

5. Inner window glazing shall be tempered glass.

Reasons

1. The Building Code Commission visited the actual job site and are convinced of the results of N.R.C. fire test F-14-11 dated September 25, 1985 (the subject of which is a double glazed window assembly protected from fire by an automatic sprinkler).

   A prototype of the proposed window assembly was tested and the sprinkler arrangement provided sufficient protection to the inner pane of tempered glass and kept it intact for the 45 minutes of fire exposure.

2. The level of radiation transmitted through the test window assembly wetted by the sprinkler is below the level likely to cause ignition of cotton waste on unexposed surface.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

REQUIREMENTS FOR EXITS
MEANING OF "SUITABLE OPEN SPACE"

B.C.C. #85-18-167
23 January 1986

General Description of Project

A three-level non-combustible open air parking structure to be constructed to the immediate west of an existing department store. The structure is designed in conformance with the provisions contained in Article 3.2.2.50. (Group F, Division 3, Storage Garages up to 22 M in height).

Reason for Application

A suitable open space or access to a public thoroughfare per Sentence 3.4.1.1. (1) of the Ontario Building Code (O. Reg. 583/83) is not defined. The Building Official in question has adopted a policy stipulating that such open spaces shall not be under cover, this prevents the Applicant from pursuing a design solution for an open air storage garage that proposes that the exit from two stair towers be at grade under the second-level slab.

Applicant's Position

The proposed structure is classified as an F3 occupancy and Clause 3.4.2.3. (1) (d) requires that travel distance be not greater than 30 M (98' - 5"). This can be satisfied by construction of two stair towers on the centre line of the long axis with the exits at grade. The proposed storage garage is open on its four sides and, except for a bridge connection which is not at issue, is separate from the nearest existing building by a minimum of 204.4 M (62' - 4 1/2").

The applicant believes that in all the circumstances the proposed design meets the life safety requirements of the Code. The five conditions of Sentence 3.2.2.50. (1) pertaining to the construction of storage garages have all been met by the proposed design. The N.R.C.'s commentary on the meaning of "a safe open space" tells us that each specific design must be considered based on the evaluation of egress from the space, construction and separation of the building and the presence of other hazards. The Applicant produced a large body of technical documentation dealing with statistics and tests respecting car and garage fires that supported his position.

Building Official's Position

Sentence 3.4.1.1. (1) requires "Exit facilities ... be provided to a public thoroughfare or a suitable open space with access to a public throughfare ..." In the opinion of

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the Building Official the exit facilities provided for the parking structure do not meet the intent of the Code in that the exit stairs do not discharge outside the building but to a floor area containing parked cars. This opinion is formulated on the basis of explanatory material contained in the N.R.C.'s commentary on Part 3 of the 1980 National Building Code. The Building Official interprets the intent of Sentence 3.4.1.1. (1) to mean that occupants must be able to discharge from an exit system without re-entering a floor area to a safe open space outside the building.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #85-18-167 demonstrates a sufficiency of compliance with the Ontario Building Code, O. Reg. 583/83 provided that:

1. the fire separation between grade level and the level above shall have a one-hour fire resistance rating and shall have no unprotected openings, including vehicle ramps.

2. the exterior of the grade level shall be kept free from any form of enclosure, including walls, parapets, railings screens or other encumbrances.

3. the parking space immediately north and the space immediately west of the stair enclosures at grade level shall be kept free and unobstructed. The perimeter of these spaces shall be provided with a permanent barrier that will ensure free pedestrian egress and prevent vehicle parking.

Reasons

1. Technical documentation submitted indicated that open air storage garages are a low fire hazard.

2. There are no unprotected openings from grade level to floor levels above.

3. The grade level will be completely open to the exterior.

4. A spatial separation will be maintained at the east doors on grade level.

5. Additional means of egress have been provided from the upper levels by the ramps, bridge and convenience stair.

6. A site visit by the B.C.C. determined that there is fire department access on three sides of the proposed structure.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#86-1-91
19 November 1986

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF an application by:

Legerlite Plastics Inc.
Ispro Coatings Inc.
805 Selkirk
Pointe Claire, Quebec
H9R 3S2

ON THE SUBJECT OF:

(a) Exterior foamed plastic or mineral wool based insulation and finish system with open weave glass fiber fabric, embedded in a copolymer based synthetic or polymer based cementicious ground coat and finished with a synthetic ready mixed acrylic based texture wall coating of integral color for the exterior of a building wall.

(b) Exterior finish system as outlined in (a) paragraph above and applied to masonry, concrete or exterior drywall surfaces of a building's exterior wall.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

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4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This exterior foamed plastic insulation system is not noncombustible and shall not be used as a structural element.

7. Exterior foamed plastic insulation system when protected on the interior side by a thermal barrier in conformance to the Ontario Building Code, may be used as a combustible element permitted in noncombustible construction.

8. (a) The insulation shall have a flame spread rating classification as required by the Ontario Building Code to determine the interior thermal barrier. The flame spread and the manufacturer's name shall be clearly marked on the insulation.

   (b) No additives such as rapid binders, anti freeze, accelerators etc. shall be added to any component unless specified by the manufacturer.

9. The finish materials shall cover all the exposed surfaces of the insulation and shall remain in place for at least 15 minutes when tested in conformance with ULC S101-1977 or CAN 4-S101-M82.

10. Each installation shall conform to the manufacturer's installation instructions and shall be reviewed in detail, stamped and signed for construction as specified by the manufacturer's listed trained personnel. Identification cards for installers shall be issued only to qualified trained personnel listed by the manufacturer.

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11. Except where a building face is adjacent to a street, the building face shall have a minimum limiting distance of

(a) 6 m (20 ft.) for buildings up to and including seven storeys in building height, and

(b) 12 m (40 ft.) for buildings exceeding seven storeys in building height, and

(c) building height shall be as defined by the Ontario Building Code.

DATED at Toronto this 19th day in the month of November in the year 1986 for authorization # 86-1-91 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

HARDWARE ON ACCESS TO EXIT DOORS

B.C.C. #86-1-168
10 April 1986

General Description of Project

This one storey restaurant inside a mall is a Group A Div. 2 assembly occupancy employing thumb turn locks on the inside bottom rail of the entrance/exit double swing doors.

Reason for Application

O.B.C. Regulation 583/83 Sentence 3.3.2.7.(1) requires that this occupancy containing an occupant load of more than 100 persons shall be equipped with hardware that will release and allow the doors to swing wide open when a force of 90N is applied to the device in the direction of travel to the exit.

Applicant's Position

The restaurant doors are wide open most of the time; particularly at peak business times (lunch and dinner) when the occupant load is more than 100 persons. The doors are never locked unless the restaurant is closed to the public. There is no latching device on these doors; they push open freely. After hours the doors are secured with the thumb turn locks on the interior side or keyed locked on the exterior.

Building Official's Position

Two egress doors both equipped with release type hardware as described in Sentence 3.3.2.7.(1) must be provided from this Group A Div. 2 occupancy.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #86-1-168 meets the intent of the Building Code on condition that the interior thumb latch locks be removed from the access to exit doors in order that these doors remain unlocked while patrons are on the premises.

Reasons

The premises is fully sprinklered. The Applicant has informed the Commission that they never lock these doors when patrons are on the premises and other required exit is in place.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#86-2-92
7 November 1986

IN THE MATTER OF Section 18(4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

A.H.I. Roofing a Unit of A.H.I. Operations Ltd.
640 Great South Road
Manukau City, New Zealand

AND AGENT:

A.H.I. Roofing International - Canada
201-2160 Springer Avenue
Burnaby, B.C
V5B 3M7

ON THE SUBJECT OF:

Decrabond Roofing System, a galvanized sheet steel shaped in various profiles of tile, coated on the exposed side with natural crushed stone chips bonded by a base coat of acrylic resin and clear acrylic overglaze.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminted, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however, it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

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4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. Except as authorized herein all applicable requirements of the Ontario Building Code Act and Ontario Regulation 583/83 shall be met. A copy of this Authorization shall be kept and maintained on the site of construction.

7. When this roofing system is used for noncombustible construction all components and support members shall be of noncombustible materials.

8. Conformance shall be made to a current CMHC Evaluation Report, however, in case of conflict with this authorization the more stringent matter shall prevail.

9. Subject to paragraphs herein this roofing system shall be in accordance with the manufacturer's published instructions and installation shall be by the manufacturer's trained qualified tradespersons.

10. In lieu of wood roof sheathing for this roofing system, wood purlins (battens) may be used.

11. Eave protection except for over unheated garages, carports and porches, shall be laid beneath the starter strip extending from the edge of the roof to not less than 750 mm (30 in.) inside the inner face of the exterior wall and shall consist of;

    (a) No.15 asphalt-saturated felt laid in two plies lapped 480 mm (19 in.) and cemented together with lap cement, or

    (b) Type S smooth surface roll roofing, or

    (c) Self-sealing composite membranes consisting of polyethylene and bituminous materials.

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12. When underlay is provided beneath this roofing system it shall be in compliance with the Code for the materials and the installation shall be in accordance to the manufacturer's recommendations.

13. In addition to paragraphs 11 and 12, positive drainage of the eave protection and the underlay materials shall be made at the lower end.

14. For existing roofs, the structural adequacy of the roof framing and the supporting members shall be examined by a qualified manufacturer's representative and a written, signed and dated certificate shall be attached to the manufacturer's warranty with copies to the building official and owner(s).

15. Voids between existing roofing systems and this new roofing system shall not be filled with insulation.

DATED at Toronto this 7th day in the month of NOVEMBER in the year 1986 for authorization # 86-2-92 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SPATIAL SEPARATION AND ZERO LOT LINE

B.C.C. #86-2-169
10 April 1986

General Description of Project

A new housing subdivision with less than the required spatial separation between some of the dwellings units on the adjoining properties was constructed with unprotected openings. However, some of the adjacent dwelling units had noncombustible cladding and no openings.

Reason for Application

O.B.C. Regulation 583/83 Sentence 9.10.15.8.(2) requires that the spatial separation be guaranteed in the title of both properties in order to calculate the spatial separation as if the dwelling units were constructed on the same property.

Applicant's Position

It is proposed to use special provisions for zero lot line spatial separation to allow the placement of unprotected openings in one side wall of a house located less than 1.2 meters from the adjacent property line while having guaranteed in the title of both adjoining properties a minimum of 1.2 meters separation between building faces.

Building Official's Position

Single family dwelling units are proposed with limiting distances of 1 m and 0.25 m each. No unprotected openings are permitted where the limiting distance is less than 1.2 m (Clause 9.10.15.8.(1)(b). Requirement regarding - "guaranteed in title" has not been met. Therefore applicable limiting distance by definition is 1 m and unprotected openings are not permitted. The Code provision in Sentence 9.10.15.8.(2) allows the spatial separation to be measured from building face to building face without regard to the property line <u>if</u> the spatial separation is "guaranteed in the title of both properties".

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Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #86-2-169 has a sufficiency of compliance with the Ontario Building Code if the following conditions are met.

1. (a) The exposing building face of the dwelling unit that will have less than the required limiting distance shall be clad with noncombustible material, have a fire resistance rating of 3/4 h and contain no unprotected openings.

   (b) The exposing building face of the adjacent dwelling unit which guaranteed the spatial separation of 1.2 m may be comprised of unprotected openings not exceeding 7% of the total wall area.

2. The spatial separation between dwelling units on adjoining properties must be guaranteed in the titles of both properties.

December 15, 1986

Subject: Application to Building Material Evaluation Commission #86-3-93, Isobloc

Further to our letters of 29 April, 22 May and 18 August 1986, please be advised that the subject application is hereby cancelled.

Should you wish to reapply in the future you may do so in the usual manner.

Sincerely,

K.S. Reel
Secretary
Building Materials
Evaluation Commission

KSR/smc

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Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

THERMAL RESISTANCE

B.C.C. #86-3-170
12 June 1986

General Description of Project

This is a solid wood building system (log house) that uses horizontally stacked timber in lieu of conventional stud framed walls.

Reason for Application

O.B.C. Regulation 583/83 Sentence 9.26.2.7.(2) requires that log wall construction shall have a miminum thermal resistance of RSI-2.1. This project provides less thermal resistance than is required by the Code; it is offset through additional thermal resistance in the roof.

Applicant's Position

Although the walls provide less thermal resistance than is required the roof provides additional thermal resistance. The total heat loss to the exterior is therefore decreased achieving sufficiency of compliance to the Code.

Building Official's Position

The Code is very clear - presently requiring a minimum thermal resistance of RSI-2.1.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that application #86-3-170 does not meet the requirements of Sections 9.26 and 9.39 of the Building Code.

Reasons

No evidence has been submitted from an architect or professional engineer that this building meets the requirements of the Ontario Building Code, as provided for under Section 9.39.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#86-4-94
23 April 1987

IN THE MATTER OF Section 18(4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF an application by:

Forrer Chemical
7221 W. Parkland Court
P.O. Box 23432
Milwaukee, U.S.A.
WI 53223

AGENT:

TCG Materials Limited
P.O. Box 5000
Burlington, Ontario
L7R 3Y8

ON THE SUBJECT OF:

Dry Block® System, is an integral polymeric water repellent admixture as manufactured by Forrer Chemical for the manufacturing of concrete block and mortar. This admixture is used in above grade exterior masonry single wythes walls in lieu of subsequent externally applied water repellents and interior dampproofing.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. Except as authorized herein all applicable requirements of the Ontario Building Code Act and Ontario Regulation 419/86 shall be met. A copy of this Authorization shall be kept and maintained on the site of construction.

7. Subject to paragraphs herein this system shall be in accordance with the manufacturers published instructions and installation shall be by the manufacturer's trained qualified tradespersons.

8. In lieu of interior dampproofing, sheathing and membranes of breather type materials; concrete blocks and mortar with this FORRER DRY BLOCK® admixture may be used for above grade exterior masonry single wythe loadbearing and non-loadbearing walls.

9. This authorization number "BMEC #86-4-94" shall be legibly cast into each of these blocks at the time of manufacturing.

10. The building official shall confirm on the jobsite the quantity of dry block mortar additive to be used as noted in the instructions on the labels of the containers, then the building official shall obliterate the labels on the required containers.

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11. The building official with reasonable cause may take away samples of the block and or mortar at any time to be tested to the manufacturer's published specifications by an independent test agency at the expense of the block manufacturer or the mortar mixing contractor.

12. To confirm the validity of this authorization on ANY building, a document supplied by the block manufacturer shall be filed with the "chief official" for each building. The purpose of that document is to certify that the block and mortar as supplied and installed complies with this authorization. The document shall also reference the building name, address, date of construction and shall be signed and dated by an authorized representative of the block manufacturer, masonry installer and the chief official.

13. This Dry Block System shall be classified as a breather type membrane and not a vapour barrier, which does not allow the passage of water vapours. However, exterior surface wetness occurs and vapours are dissipated within the open cores and the mortar joints are broken between the front and rear of the block.

DATED at Toronto this 23 day in the month of APRIL
in the year 1987 for authorization # 86-4-94
on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

DIRECTION OF DOOR SWING

B.C.C. #86-4-171
12 June 1986

General Description of Project

The premises are currently used as a private art gallery on the ground floor and basement with a residence on the second and third floor levels.

Reason for Application

O.B.C. Regulation 583/83 Article 9.9.6.9 requires that every exit door shall swing on a vertical axis in the direction of exit travel. The front entrance to the building which provides access to both the ground floor commercial and the upper level residential does not swing in the direction of exit travel.

Applicant's Position

The doors are the original ornamental doors; to change their swing would require total replacement. With the provision of a second means of exit an acceptable level of life safety would be achieved; therefore the entry doors could remain as they currently exist.

Building Official's Position

The requirement is that an exit door shall swing in the direction of exit.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission on application #86-4-171 that the leafs of the front entrance door shall swing in the direction of exit travel, and the remaining items on the Order to Comply shall be completed to the satisfaction of the Building Official.

Reasons

1. The Building Code is specific in its requirement that the exit doors must swing in the direction of exit travel.

2. The applicant and the Building Official have reached a mutually satisfactory agreement on the means of meeting the remaining Building Code requirements stated in the Order to Comply.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#86-5-95
7 November 1986

IN THE MATTER OF Section 18(4)(b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:
Cano Structures Inc.
140 Riviera Drive
Markham, Ontario
L3R 5M1

ON THE SUBJECT OF:

Nascor TM System, which is prefabricated components for load bearing, above grade, combustible construction, exterior integrated wall assembly. Constructed from double studs used on the flat, fastened to sill and header plates and bonded to a rigid board expanded polystyrene core, mechanically fastened to each other with spiral nails.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

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4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, techniques, design, system and/or use of the same shall automatically be cause for termination unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. Except as authorized herein all applicable requirements of the Ontario Building Code Act and Regulations shall be met. A copy of this authorization shall be attached to the application for a building permit and a copy shall be kept and maintained on the site of the construction as per code requirements.

7. This AUTHORIZATION is further limited to the continuance of a valid C.M.H.C. Building Materials Evaluation Report.

8. Each installation shall conform to the manufacturer's published installation instructions and shall be reviewed in detail, stamped, dated and signed for construction as specified by the manufacturer's listed trained personnel. Identification cards for installers shall be issued only to qualified trained personnel listed by the manufacturer.

9. The subject matter shall be designed, engineered, inspected and verified by the architect or engineer as per code requirements. A document of certification with an architect or engineer's (authorized in Ontario) stamp shall be forwarded to the Chief Building Official and the building Owner(s).

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10. Engineering inspection of the subject construction shall be carried out; to ensure that construction is consistent with the design, by the person responsible for its design details and general review during construction; or by another person qualified in the inspection of this construction and who is responsible to the design architect or engineer and all construction documents shall be duly sealed.

11. The manufacturer shall further produce a written guarantee on the Nascor Wall System for each building wherein this system has been constructed. Copies of this guarantee shall be forwarded to the Chief Building Official and the building owner(s).

12. Subject to the above paragraph 1 of this authorization shall be further limited to buildings using the subject matter for which a permit is applied for prior to 31 December 1989. However, the applicant may by written registered letter to this COMMISSION request an amendment to this paragraph at least three months before that date.

DATED at Toronto this 7th day in the month of NOVEMBER in the year 1986 for authorization # 86-5-95 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ontario Ministry of Housing

Building Code Commission

Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

EXCEPTIONS TO BUILDING HEIGHT IN STOREYS

B.C.C. #86-5-172
24 July 1986

General Description of Project

This is an existing one storey building approximately 18000 sq ft in area of noncombustible construction with a roof assembly consisting of wood planking. It is subdivided into three separate areas - two fur storage vaults and cleaning operations/general storage/office mezzanine.

Reason for Application

O.B.C. Regulation 583/83 Sentence 3.2.1.2.(4) provides the exception that a mezzanine shall not be required to be considered as a storey in calculating building height where it does not exceed 10 per cent of the area of the storey in which it is located.

Applicant's Position

The fur storage vaults are separated from each other and the remainder of the building by at least 2 h fire resistance rated separations constructed of 8 in. hollow masonry blocks. A material called Zonolite has been applied to the walls and ceilings of the vaults for insulation purposes. This material is also a listed fire proofing material and increases the fire resistance rating of the separations considerably beyond 2 hours.

These can be considered as equivalencies to permitting the deck levels to exceed the 10 per cent limit on enclosed mezzanines since any hazard presented by the mezzanine is effectively contained by the fire separations.

The entire building is provided with a fully supervised fire alarm system connected to a central station monitoring system as well as being protected by an automatic sprinkler system located at ceiling level.

Building Official's Position

Appropriate fire resistance ratings have not been provided. This project is a two-tier mezzanine used for fur storage. Each level is 5588 sq ft in area. The mezzanines occupy 100 per cent of the room in which they are located.

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Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #86-5-172 indicates an arrangement of cold storage levels consisting of an intermediate deck racking system which demonstrates a sufficiency of compliance with the Ontario Building Code.

Reasons

1. The building is provided with a supervised fire alarm system.

2. The building is fully sprinklered.

3. Fur storage is a low fire load.

4. The storage vaults are provided with temperature sensors to monitor temperature changes of +/- 1°C.

5. Each level of storage has been provided with an egress.

6. Storage areas are not open to the public.

7. During non business hours the premises are provided with an ultra sensitive detection system.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION #86-6-96
BY THE 7 November 1986
BUILDING MATERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF an application by:

Double A/D Distributors Ltd.
420 Tapscott Road
Scarborough, Ontario
M1B 1Y4

ON THE SUBJECT OF:

(a) Exterior foamed plastic or mineral wool based insulation and finish system with open weave glass fiber fabric, embedded in a copolymer based synthetic or polymer based cementicious ground coat and finished with a synthetic ready mixed acrylic based texture wall coating of integral color for the exterior of a building wall.

(b) Exterior finish system as outlined in (a) paragraph above and applied to masonry, concrete or exterior drywall surfaces of a building's exterior wall.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

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4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This exterior foamed plastic insulation system is not noncombustible and shall not be used as a structural element.

7. Exterior foamed plastic insulation system when protected on the interior side by a thermal barrier in conformance to the Ontario Building Code, may be used as a combustible element permitted in noncombustible construction.

8. (a) The insulation shall have a flame spread rating classification as required by the Ontario Building Code to determine the interior thermal barrier. The flame spread and the manufacturer's name shall be clearly marked on the insulation.

   (b) No additives such as rapid binders, anti freeze, accelerators etc. shall be added to any component unless specified by the manufacturer.

9. The finish materials shall cover all the exposed surfaces of the insulation and shall remain in place for at least 15 minutes when tested in conformance with ULC S101-1977 or CAN 4-S101-M82.

10. Each installation shall conform to the manufacturer's installation instructions and shall be reviewed in detail, stamped and signed for construction as specified by the manufacturer's listed trained personnel. Identification cards for installers shall be issued only to qualified trained personnel listed by the manufacturer.

...3/

11. Except where a building face is adjacent to a street, the building face shall have a minimum limiting distance of

    (a) 6 m (20 ft.) for buildings up to and including seven storeys in building height, and

    (b) 12 m (40 ft.) for buildings exceeding seven storeys in building height, and

    (c) building height shall be as defined by the Ontario Building Code.

DATED at Toronto this 7th day in the month of NOVEMBER in the year 1986 for authorization # 86-6-96 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

DISTANCE BETWEEN EXITS

B.C.C. #86-6-173
24 July 1986

General Description of Project

This condominium apartment building is 13 storeys in building height. Storeys 3 to 12 inclusive contain apartment units provided with a means of egress comprised of a fire separated corridor with fire separated exit stairways located at the extremities of the corridor. The exit doors are located with the required 9 metres distance between them except for the 12th floor which was changed during construction and reduced to 8 metres between the exit doors.

Reason for Application

O.B.C. Regulation 583/83 Clause 3.4.2.2.(1)(a) requires that except where a floor area is divided by a fire separation so that it is necessary to pass through it to travel from one exit to another exit, the least distance between 2 required exits from a floor area shall be one half the maximum diagonal dimension of the floor area, but need not be more than 9 m for a floor area having a public corridor.

Applicant's Position

The 12th floor was redesigned to accommodate only two penthouse units (in lieu of the originally designed three units). Since some of the hallway is incorporated within the suites the exit doors were relocated and are 8 metres apart. The level of safety has not been reduced.

Building Official's Position

The exit door relocation in conjunction with the reduction in apartment units from 3 to 2 does not reduce the performance level of the means of egress below that intended by the Code. However, the least distance between the two exits as required by Clause 3.4.2.2.(1)(a) has not been provided.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #86-6-173 indicates a sufficiency of compliance with the Ontario Building Code.

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Reasons

1. The occupant load has been reduced by the reduction in number of suites on this floor from 3 to 2.

2. The access to exit from the suites are immediately adjacent to the exit doors from the floor area.

3. The fire separated stairways are located at the extremities of the corridor.

4. The distance between the exit doors of 8 metres in lieu of 9 metres does not substantially reduce the performance level of the means of egress.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#86-7-97
7 November, 1986

IN THE MATTER OF Section 18(4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Preswitt Manufacturing Ltd.
2040 West 12th Avenue
Vancouver, B.C.
V6J 2G2

ON THE SUBJECT OF:

(a) Exterior foamed plastic or mineral wood based insulation and finish system with open weave glass fiber fabric, embedded in a copolymer based synthetic or polymer based cementicious ground coat and finished with a synthetic ready mixed acrylic based texture wall coating of integral color for the exterior of a building wall.

(b) Exterior finish system as outlined in (a) paragraph above and applied to masonry, concrete or exterior drywall surfaces of a building's exterior wall.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

...2/

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This exterior foamed plastic insulation system is not noncombustible and shall not be used as a structural element.

7. Exterior foamed plastic insulation system when protected on the interior side by a thermal barrier in conformance to the Ontario Building Code, may be used as a combustible element permitted in noncombustible construction.

8. (a) The insulation shall have a flame spread rating classification as required by the Ontario Building Code to determine the interior thermal barrier. The flame spread and the manufacturer's name shall be clearly marked on the insulation.

   (b) No additives such as rapid binders, anti freeze, accelerators etc. shall be added to any component unless specified by the manufacturer.

9. The finish materials shall cover all the exposed surfaces of the insulation and shall remain in place for at least 15 minutes when tested in conformance with ULC S101-1977 or CAN 4-S101-M82.

10. Each installation shall conform to the manufacturer's installation instructions and shall be reviewed in detail, stamped and signed for construction as specified by the manufacturer's listed trained personnel. Identification cards for installers shall be issued only to qualified trained personnel listed by the manufacturer.

...3/

11. Except where a building face is adjacent to a street, the building face shall have a minimum limiting distance of

(a) 6 m (20 ft.) for buildings up to and including seven storeys in building height, and

(b) 12 m (40 ft.) for buildings exceeding seven storeys in building height, and

(c) building height shall be as defined by the Ontario Building Code.

DATED at Toronto this 7th day in the month of NOVEMBER in the year 1986 for authorization # 86-7-97 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SPATIAL SEPARATION

B.C.C. #86-7-174
29 August 1986

General Description of Project

The project is an existing six storey office building adjacent to a small park and courtyard in front of a public library building.

Reason for Application

O.B.C. Regulation 583/83 Table 3.2.3.A. provides that no unprotected openings are permitted if the limiting distance is less than 1.2 metres (3.937 ft.).

Applicant's Position

The applicant wishes to construct unprotected openings in the exposing building face with a limiting distance of two decimal one six (2.16) feet. The municipality has agreed by resolution of the city council that it would not permit any construction on the lands owned by it (adjacent to the project) for a period of 30 years.

Building Official's Position

The construction of unprotected openings in the exposing building face do not comply with the provisions of the Ontario Building Code with respect to limiting distance.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #86-7-174 shows a sufficiency of compliance with the Code provided that:

> A convenant is made between all parties. The said convenant to be registered on title of both properties guaranteeing that, should the City permit a structure to be erected on the adjacent property, the existing building shall be made to comply with the Building Code in force at that time regarding the unprotected openings on the exposing face.

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Reasons

1. The Commission visited the site and determined that the spatial separation between the existing buildings is adequate.

2. The Commission sees no life safety problems at this time but the above condition will provide for life safety protection in the future should conditions change.

3. The applicant has agreed to provide a copy of the covenant to the Building Code Commission.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SPATIAL SEPARATION

B.C.C. #86-8-175
29 August 1986

General Description of Project

The application is to allow for more unprotected openings to the northerly exposing building face of an addition with a limiting distance of 6.17 metres. The property adjoining is a municipality owned easement for drainage purposes, 15 metres in width.

Reason for Application

O.B.C. Regulation 583/83 Table 3.2.3.A. for a Group F, Division 3 occupancy with 325.15 sq meters exposing building face at a 8.7 to 1 ratio restricts unprotected openings to a maximum of 16%.

Applicant's Position

The applicant wishes to construct unprotected openings in the sidewall to consist of 2,187 sq ft (203.23 sq metres) or 62.5% of the exposing building face, which would require a limiting distance of 14.54 metres. The registered title of both adjoining properties would have to add a condition stating that if a building were to be erected on the City property in the future the owner or any future owner would be required to alter the unprotected openings to suit the requirements of the Building Code.

Building Official's Position

The construction of unprotected openings in the exposing building face do not comply with the provisions of the Ontario Building Code with respect to limiting distance.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #86-8-175 shows a sufficiency of compliance with the Code provided that:

> A covenant is made between all parties. The said covenant to be registered in the title of both properties guaranteeing that, should the City permit a structure to be erected on their property, the existing building shall be made to comply with the Building Code in force at that time regarding the unprotected openings on the exposing face.

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Reasons

1. The Commission visited the site and determined that although the upper 60% of the exterior wall is constructed of steel cladding which does not provide a fire resistance rating, and is therefore defined as an unprotected opening, there is adequate spatial separation between addition and existing buildings next to the opposite side of the easement.

2. The Commission sees no life safety problems at this time but the above condition will provide for life safety protection in the future should conditions change.

3. The applicant has agreed to provide a copy of the covenant to the Building Code Commission.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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SIZE AND OCCUPANCY REQUIREMENTS FOR FIRE SAFETY

B.C.C. #86-9-176
29 September 1986

General Description of Project

The project is an addition to link two seperate existing Group F, Division 2, Major Occupancy buildings.

Reason for Application

O.B.C. Regulation 583/83 Sentence 3.2.1.2. (4) states that a mezzanine shall not be required to be considered as a storey in calculating building height and need not conform to Sentence (3) where the mezzanine does not exceed 10 per cent of the area of the storey in which it is located. Clause 3.2.2.45. (2) (e) requires that the building shall be of noncombustible construction, and roof assemblies shall have a 1 1/2 h fire-resistance rating.

Applicant's Position

The applicant has submitted a detailed analysis and reclassification with respect to the requirements of subsection 3.2.2. of the Code. The comprehensive calculations indicate the total aggregate building area of the first floor, existing buildings including the proposed link is 293,746 sq. ft. (27,289 sq. m). The total aggregate building area for the second floor (mezzanines) is 27,157 sq. ft. (2,522.89 sq. m) calculated as occupying 9.24% of the main storey area.

Building Official's Position

The maximum of 10% should be based on the floor area of the space or room in which the mezzanine is located and not the total floor area of that storey. Although there is a proposed change to Article 3.2.2.45. it is not in effect at the present time.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #86-9-176 meets the intent of the Code.

The proposed new addition providing a link between the two existing plant buildings changes the status of the plant to one building. This allows the area of the upper level mezzanines to be calculated as less than 10% of the total building area.

Reasons

The addition of the link joining the two buildings allows the plant to be considered as one building.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

STANDPIPE & HOSE SYSTEMS

B.C.C. #86-10-177
26 September 1986

General Description of Project

The project, an 8,000 sq. ft. building addition, is a steel fabricating shop of masonry walls, steel roof joints with a steel deck construction. This addition, along with the existing building, results in a building area of approximately 4200 m 2.

Reason for Application

O.B.C. Regulation 583/83 Clause 3.2.5.4.(1) (b) states that a building of more than 3000 m 2 in building area classified under Group F, Division 3 would have to be provided with a standpipe and hose system.

Applicant's Position

The applicant submits that since:

- the building is a steel fabricating plant with a minimal combustible load;
- the company has an in place fire fighting procedure;
- there is ready access to all fire exits with a maximum travel distance of 60 ft.;
- the present building cannot be increased in size;
- two fire hydants on the street fall well within distances specified in Clauses 3.2.5.2.(3) (b) and (c). The plant area is completely open with no cross walls or partitions;
- the building faces two streets;

the level of safety required by the Code is achieved without a fire hose system within the plant.

Building Official's Position

The area of the building exceeds the allowable building area under Sentence 3.2.5.4.(1).

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #86-10-177 provides a sufficiency of compliance with the Ontario Building Code.

Reasons

The proposed fire protection measures contained in the application, specifically the provision of suitable fire extinguishers and lack of a fire load, provide adequate life safety.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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ACCESS TO EXITS

B.C.C. #86-11-178
4 December 1986

General Description of Project

The project is a Group D (business occupancy) on the first floor of a building. The floor area is occupied by two separate tenant suites.

Reason for Application

Determination of access to exit and exiting requirements in a floor area occupied by more than one suite

Applicant's Position

O.B.C. Regulation 419/86 Article 9.9.7.2. states that the maximum length of a dead-end public corridor shall be measured from the end of the dead-end portion to a point where it is possible to go in opposite directions to each of 2 separate exits.

Building Official's Position

Public corridor as required by Article 9.9.7.1. of the Ontario Building Code is not provided. It cearly states that when a floor area is occupied by more than one suite, each suite shall have an exterior doorway or a doorway leading to an exterior passageway or to a public corridor and from the point doorway enters the corridor or exterior passageway it shall be possible to go in opposite directions to each of two separate exits.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #86-11-178 indicates sufficiency of compliance with the Ontario Building Code provided that both suites provide a free and clear egress to the two remote existing exits.

Reasons

1. Floor area concerned are exceptionally small.

2. Travel distance between the suite exits and building exits is short.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

WINDOWS

B.C.C. #86-12-179
4 December 1986

General Description of Project

Portion of basement of trucking terminal to contain truck driver sleeping rooms. It is proposed that windows not be provided for these sleeping rooms. The truck terminal building and basement area allocated for the sleeping rooms is existing.

Reason for Application

O.B.C. Regulation 419/86 Article 3.6.2.1. states that every room used for sleeping in any building shall be provided with windows.

Applicant's Position

The provision of windows for the truck driver sleeping rooms are not required for fire safety and would not improve the area insofar as providing a more healthy environment.

Building Official's Position

Sentence 3.1.3.2.(2) states that not more than one dwelling unit shall be contained within a building classified as Group F, Division 2 major occupancy. Article 9.7.2.2. requires minimum window glass area for rooms which are used for sleeping.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #86-12-179 indicates a sufficiency of compliance with the Building Code.

Reasons

1. The code does not specifically address the requirements of a short term rest facility.

2. Normal code requirements concerning ventilation, fire alarms and sprinklering will be provided for the approval of Chief Building Official..

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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COMPUTER ROOM
SPRINKLER SYSTEMS

B.C.C. #86-13-180
18 February 1987

General Description of Project

The project is a 250,000+ sq. ft. 5-storey (2 below grade and 3 storey above grade) office building under construction. The first storey below grade contains 8,000+ sq.ft. computer room with 18 in high access flooring. The area under the access flooring contains P.O.C. detectors with automatic halon suppression system maintained at 6% concentration for 10 min. The room is manned 24 hrs/day and the building is sprinklered throughout.

Reason for Application

O.B.C. Regulation 419/86 Sentence 3.2.5.5.(1) states that where a sprinkler system is required it shall be in conformance with NFPA 13.

Applicant's Position

The purpose of the underfloor space in this computer room is to serve as a conduit for running communication and power cable. The clear height within the floor space is less than 150 mm (6 in.). NFPA 13, 1985 recognizes the impracticality of providing sprinklers in similarly constricted areas by deleting the requirements for sprinklers in combustible concealed spaces enclosed wholly or partly by combustible construction. The construction materials of the floor and subfloor are non-combustible. The wiring represents only a minor amount of combustible material therefore NFPA 13 would permit deletion of sprinklers within the floor space irrespective of its height.

Building Official's Position

The space will be filled with wiring of combustible insulation. Wiring is a construction material and is an integral part of the building. The sprinkler system is intended to extinguish or control fires in the building's contents as well as the structure.

A Halon fire protection system is not recognized by any standard as a replacement for sprinkler protection.

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Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that Application #86-13-180 does not meet the requirements of O. Reg. 583/83 or 419/86.

Reasons

1. The Building Code requires that this building, which contains interconnected floor spaces, shall be sprinklered.

2. Where sprinklers are required in a building, they shall be in accordance with NFPA 13.

3. This building does not satisfy the exception for the contents of the under-floor area referring to flame spread and fuel loading.

4. A halon fire protection system is not recognized by the O.B.C. or any standard as a replacement for sprinkler protection.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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B.C.C. #86-14-181
18 February 1987

EXIT FACILITY

General Description of Project

The project is a staircase (with landings at certain levels) extending from the ground floor to the fourth floor of the building. The stairs, 6 metres in width at the base, taper to 1.8 metres in width at the top.

Reason for Application

O.B.C. Regulation 583/83 Sentence 3.4.8.5.(2) states that where the required width of a flight of stairs exceeds 2 200 mm one or more intermediate handrails continuous between landings shall be provided.

Applicant's Position

Since this staircase is not a means of egress it does not have a "required width". For aesthetic reasons the handrails are positioned on the walls to either side of the staircase.

Building Official's Position

The project is used by the public not only as a means of access to exit, but also for normal public admittance to the 2nd, 3rd and 4th floors. Thus in accordance with Sentence 3.4.1.1.(4) and 3.3.1.9.(1) the stairs must comply with the requirements of Section 3.4.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that Application #86-14-181 does not meet the requirements of O. Reg. 585/83.

Reasons

Stairways through which the public is normally admitted and which are in addition to required exits, shall conform to the requirements of Section 3.4. requiring intermediate handrails.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #86-15-182
19 February 1987

ACCESS TO EXITS

General Description of Project

The project is three 2-storey office buildings. The basement floor is used for individual parking garages while the ground and second floor are used for Group D office occupancies.

Reason for Application

This dispute is concerned with the access to exits and number of exits from all floors of the buildings.

Applicant's Position

O.B.C. Regulation 419/86 defines floor area as the area between exterior walls and firewalls excluding the space occupied by exits and vertical service spaces that pierce the storey. As such the floor area for this project is the entire floor rather than the area occupied by an individual unit. Units have been separated from each other by a 1 h. fire separation (no fire separation is required between office occupancies).

The area per unit is 155 sq. m., which would only require one means of egress via Table 3.3.1.A. and if this was the floor area, would only require on exit by Sentence 3.4.2.1.(2) and Table 3.4.2.A. The distance from the furthest point in a unit to the exit is less than the 25 m. which is the distance reference in Table 3.4.2.A. In addition, the distance from the furthest point of a unit to the exterior exit door is also less than 25 m.

Building Official's Position

The O.B.C. requires every floor area to be served by two exits except where the floor area conforms to Table 3.4.2.A. The floor area is defined as the area between exterior walls and firewalls. The intent of the Code is to permit a single exit in buildings not exceeding 2 storeys in building height where the floor area and travel distance are limited to size as per the Table. Table 3.4.2.A. only refers to floor area - not rooms or suites; therefore, for a floor area to be served by two exits you must have access to them to permit a single exit in building not exceeding 2 storeys in building height where the

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floor area and travel distance are limited in size as per the Table. Table 3.4.2.A. only refers to floor area - not rooms or suites; therefore for a floor area to be served by two exits you must have access to them.

Sentence 3.3.1.3.(1) requires each suite to have an exterior exit doorway or a doorway into a public corridor. Except where a floor area is permitted to have a single exit (Sentence 3.4.2.A.(2)) you must have a choice of separate exits when you enter the public corridor. The term exterior exit doorway refers to ground floor units with a direct exit at grade, not to a second floor with an exit into a stairwell. All exit stairs must have an exterior exit doorway.

The reason the Code requires two exits from floor areas over a certain size is the possibility of one of the exits being put out of commission in the event of a fire and this possibility increases as the floor area increases.

Commission Ruling

In favour of Applicant. It is the decision of the Building Code Commission that Application #86-15-182 meets the intent of the Ontario Building Code Regulation 419/86.

Reasons

It is the intent of the Code that areas less than 155 sq. m., because of fire separation, may have one exit.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #86-16-183
19 February 1987

INTEGRITY OF EXITS

General Description of Project

The project is a new elevator shaft being constructed for the use of handicapped persons in a high school. The elevator door opens onto landings located in an exit stairwell.

Reason for Application

O.B.C. Regulation 583/83 in Sentence 3.4.5.2.(5) states that an exit shall be designed for no purpose other than for exiting, except that an exit may be designed to serve as an access to a floor area.

Applicant's Position

The new elevator is being constructed in a three storey wing in the existing stair. The elevator access is gained from 12' x 13' landings on the second and third floor of the existing stair.

Building Official's Position

If fire-rated screens are not constructed (or relocated) so as to separate the elevator opening from the exit stairs, then the elevator becomes part of the exit stairwell. Elevators are not recognized as exits and when constructed as part of a stairwell would be in violation of Sentence 3.4.5.2.(5) of the O.B.C. Because the elevator would only open back into the stairway, it does not provide access to a floor area.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that Application #86-15-182 does not meet the requirements of Ontario Building Code Regulation 583/83.

Reasons

There is no provision for a rated fire separation between the elevator doors and the exit stairs on the second and third floors as well as on the main floor.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #86-17-184
19 March 1987

NON-COMBUSTIBLE CONSTRUCTION

General Description of Project

The project is a nineteen storey hotel with basement, being constructed within the walls of an existing two storey building (which has a partial third storey). The existing building is of stone and masonry construction with combustible roof, floor and ceiling assemblies.

Two classifications apply to this project, Group A, Division 2 (assembly occupancy) and Group C (residential).

Reason for Application

O.B.C. Regulation 549/84 in Articles 3.2.2.16 and 3.2.2.28 states that the building shall be of noncombustible construction.

Applicant's Position

It is proposed to incorporate the existing wooden floors and the roof of the partial third storey into the design of the complex by applying 5/8" fire resistant gypsum board to the underside of the floors and roof in order to achieve a one hour fire separation between the storeys of the existing building.

Building Official's Position

The Ontario Building Code requires total construction to be of noncombustible materials and total construction to be of noncombustible construction.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that in Application #86-17-184 where combustible construction occurs, one layer of 5/8" fire rated gypsum board added over the existing metal lath and plaster provides sufficiency of compliance with the Building Code O.R. 549/84 and, that the proposed laminated glass enclosure of the corridor is not acceptable.

Reasons

Experience indicates that the approved system reasonably meets the intent of the Code.

Ontario Ministry of Housing

Building Code Commission

Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #86-18-185
19 March 1987

EGRESS FROM DWELLING UNITS

General Description of Project

The project is a two and a half storey combustible building with one dwelling unit occupying the basement, first level and most of the second level. A small apartment on the second and third level comprises the second dwelling unit. The connection between the second and third levels of the upper dwelling unit is by means of a circular stair.

Reason for Application

O.B.C. Regulation 583/83 in Article 9.9.9.4 states that where an egress door from a dwelling unit opens onto a public corridor or exterior passageway it shall be possible from the location where the egress door opens onto the corridor or exterior passageway to go in opposite directions to 2 separate exits unless the dwelling unit has a second and separate means of egress.

Applicant's Position

Even though a winding stair is not a legal exit, it is a means to exit besides the fire exit. The apartment is suited for a single person only. Prior to restoration the only exit was a 2'6" wide double winder (See O.B.C. Article 11.3.1.1. The performance level of a building after construction shall not be less than the performance level of the building prior to construction).

Building Official's Position

The O.B.C. is specific in requiring the dwelling unit in question to have a second and separate means of egress. The permit plans submitted provided only one exit from the third level. The circular stair does not conform to the requirements of the Building Code with respect to stairs. Therefore the interior stair cannot be considered as part of the means of egress.

The requirement for a second exit from the third level of the dwelling units has been confirmed in Ontario Regulation 419/86 in Article 9.9.9.5 which states that where an egress door from a dwelling unit opens onto an exit stairway that serves more than one dwelling unit, or onto a public corridor served by a single exit stairway, the dwelling unit shall be provided with a second and separate means of egress. It is quite apparent from this new requirement that the second exit is required.

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Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that the existing exiting system from the third floor separate dwelling unit in Application #86-18-185 does not comply with the Ontario Building Code O. Reg. 583/783.

Reasons

No ambiguity in the Code.

Ontario Ministry of Housing

Building Code Commission

Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-1-186
13 May 1987

NONCOMBUSTIBLE CONSTRUCTION

General Description of Project

The project is a four storey building with approximately 50% of its typical floor area as a fourth floor. The construction is of loadbearing brick masonry walls with floors and roof framed with timber construction. The timber floor construction is protected with 5/8" firecode drywall. The floor areas are served with two existing enclosed exits, with wooden stairs, plus a new convenience stair constructed of wood within an old freight elevator shaft.

Reason for Application

The building is classified as assembly, business and personal services and mercantile occupancies.

O.B.C. Regulation 419/86 in Article 3.1.4.5. and Sentences 3.2.2.15(2); 3.2.2.32(2); 3.2.2.36(2) states that the building (or part of the building) shall be of noncombustible construction.

Applicant's Position

The new timber convenience stairs offer sufficiency of compliance with the intentions of the Building Code. The new wooden stair and its structural support construction has been completely covered with 5/8" firecode drywall except for exposed surfaces which are used as walking platforms. The existing shaft is of solid brick masonry construction with a minimum thickness of 12". All old openings in the shaft were closed up with walls having a minimum fire resistance rating of 1 hour. The ceiling of the shaft has been lowered to the third floor ceiling level and reconstructed using fire rated drywall. All entrances into the shaft are fire rated closures with a 1 1/2 hour label. The stairshaft also offers windows exposed to the street at its landings and is protected with a smoke detector.

Building Official's Position

The O.B.C. in Sentence 3.1.4.5.(1) to (13) lists those materials of a combustible nature which are permitted in a noncombustible building, of which structural components of stairs or exits are clearly omitted. The construction of a wood set of stairs is

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material alteration and is required to be of noncombustible construction. The substitution of wood for steel or concrete is not sufficiency of compliance.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that Application #87-1-186 does not meet the requirements of the Ontario Building Code O. Reg. 419/86.

Reasons

1. The plans submitted to this Commission by the owner and declared "as built" indicate that the stairway in question is a required exit and is new construction in a four storey building.

2. The stairs therefore must be of noncombustible construction.

3. The Commission visited the site to conform the above reasons.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-2-187
13 May 1987

FIRE ALARM AND DETECTION SYSTEMS

General Description

The project is a two level, open air, noncombustible parking garage approximately 12,800 sq.m. in area. The parking structure is independent of all other buildings.

Reason for Application

O.B.C. Regulation 419/86 in Sentence 3.2.4.1.(1) states that a fire alarm system shall be installed when the occupant load in Table 3.2.4.A. for any major occupancy is exceeded.

Applicant's Position

A fire alarm system is not required in this structure based on the following points.

1. The occupant load calculations of Subsection 3.1.14 of the Building Code is questionable.

2. The hazard associated with the use of this structure to the users of the facility is minimal.

3. The parking structure provides a safe environment for users of the facility, a fire alarm system would not increase the level of life safety.

4. Due to the nature of the structure, the fire alarm system would be subject to vandalism to the extent that repeated false alarms would diminish the effectiveness of the fire alarm system in initiating prompt evacuation of the structure and fire department confidence in the validity of fire alarm signals originating from within the structure.

Building Official's Position

With an occupant load of more than 75 persons on the upper parking deck, based on the requirements contained in the O.B.C. in Subsection 3.1.4., a fire alarm with detection system must be installed in the structure with Sentence 3.2.4.1.(1)

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Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission with the Application #87-2-187 indicates a sufficiency of compliance with the Ontario Building Code O. Reg. 419/86.

Reasons

1. The applicabiity of the occupant load calculation of Subsection 3.1.14 of the O.B.C. is questionable for this particular application.

2. The design of the parking structure provides an inherently safe environment for the users of the facility, such that a fire alarm system would not significantly increase the level of life safety within the structure.

3. Occupants may exit the second level via multiple exit stairs located around the perimeter as well as via vehicle ramp at the west end of the structure.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-8-193
2 September 1987

STANDPIPE AND HOSE SYSTEMS

General Description of Project

The project, a building addition, is a steel fabricating shop of masonry walls, steel roof joints with a steel deck construction. The building area of the new plant is 5,120 sq.m.

Reason for Application

O.B.C. Regulation 419/86 in Sentence 3.2.5.4.(1)(b) states that a building of more than 3,000 sq.m. in building area classified under Group F, Division 3 would have to be provided with a standpipe and hose system.

Applicant's Position

The building is of a non-combustible nature used for steel processing and coil storage. A full fire safety program is in effect and type A.B.C. fire extinguishers are located throughout the building.

Building Official's Position

Th area of the building exceeds allowable building area under Sentence 3.2.5.4.(1).

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that Application #87-8-193, the operation of this plant (a steel processing and coil storage facility) at this time demonstrates a sufficiency of compliance with Ontario Building Code O. Reg. 419/86.

Reasons

1. The present use of the building as stated by the applicant is a cold steel processing plant which does not create the likelihood of danger from fire.

2. The premises are provided with adequate fire extinguishers.

3. A fire safety committee has been organized and meets regularly to ensure safety training of all employees.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-7-192
2 September 1987

SMOKE VENTING OF FLOOR AREAS

General Description of Project

A multi-storey condominium containing principally Group C residential occupancies as well as Group D, Group E and Group A Division 2 in the basement and first floors.

Reason for Application

Sentence 3.2.6.5. (1) of the Ontario Building Code (O. Reg. 419/86) states that the "means of venting each floor area to the outdoors shall be provided by windows, wall panels or smoke shafts....". The Building Official requests that a smoke shaft be installed in the building.

Applicant's Position

It is the contention of the Applicant that the present design using in suite openable exterior windows meets the requirements of the Code and that requiring the use of a smoke shaft is beyond the scope of the building inspector's discretion. The suite windows will be identifiable from the interior of the building on all floors and on the exterior of the building on the bottom six floors so that these windows are identifiable to the fire department.

Building Official's Position

1. (a) Article 3.2.6.5. requires means of venting for each floor area.

   (b) Floor area as defined includes the public corridor. Means of venting is not available for the corridor unless the corridor is vented through somebody's dwelling unit or exit stairs.

   (c) Venting is required to comply with Section 3 of Chapter 3 "Measures for Fire Safety in High Buildings" of NRCC No. 17724, The Supplement to the NBC 1980.

2. Section 3, Sentence 2 (c) of the above document requires that the windows, when used for venting, be openable from the interior without the use of wrenches or keys.

   To open the windows for smoke venting purposes from the interior, keys are required to unlock apartment unit doors.

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3. The fire department will use an apartment unit for smoke venting only if it has already sustained heavy smoke damage and their operations will not cause further damage. The Intent of Article 3.2.6.5. is to provide venting to aid firefighting. The use of windows in individual apartment units does not meet this intent.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that Application #87-7-192 conforms to the requirements of the Ontario Building Code, O. Reg. 419/86.

Reasons

- Sentence 3.2.6.5. (1) requires "means of venting each "floor area" to the outdoors by windows, wall panels or smoke shafts".

- "Floor area" means "the space on any storey of a building between exterior walls and required fire walls, including the space occupied by interior walls and partitions".

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-6-191
2 September 1987

SMOKE VENTING OF FLOOR AREAS

General Description of Project

A multi-storey condominium containing principally Group C residential occupancies as well as Group D, Group E and Group A Division 2 in the basement and first floors.

Reason for Application

Sentence 3.2.6.5. (1) of the Ontario Building Code (O. Reg. 419/86) states that the "means of venting each floor area to the outdoors shall be provided by windows, wall panels or smoke shafts....". The Building Official requests that a smoke shaft be installed in the building.

Applicant's Position

It is the contention of the Applicant that the present design using in suite openable exterior windows meets the requirements of the Code and that requiring the use of a smoke shaft is beyond the scope of the building inspector's discretion. The suite windows will be identifiable from the interior of the building on all floors and on the exterior of the building on the bottom six floors so that these windows are identifiable to the fire department.

Building Official's Position

1. (a) Article 3.2.6.5. requires means of venting for each floor area.

   (b) Floor area as defined includes the public corridor. Means of venting is not available for the corridor unless the corridor is vented through somebody's dwelling unit or exit stairs.

   (c) Venting is required to comply with Section 3 of Chapter 3 "Measures for Fire Safety in High Buildings" of NRCC No. 17724, The Supplement to the NBC 1980.

2. Section 3, Sentence 2 (c) of the above document requires that the windows, when used for venting, be openable from the interior without the use of wrenches or keys.

   To open the windows for smoke venting purposes from the interior, keys are required to unlock apartment unit doors.

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3. The fire department will use an apartment unit for smoke venting only if it has already sustained heavy smoke damage and their operations will not cause further damage. The Intent of Article 3.2.6.5. is to provide venting to aid firefighting. The use of windows in individual apartment units does not meet this intent.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that Application #87-6-191 conforms to the requirements of the Ontario Building Code, O. Reg. 419/86.

Reasons

- Sentence 3.2.6.5. (1) requires "means of venting each "floor area" to the outdoors by windows, wall panels or smoke shafts".

- "Floor area" means "the space on any storey of a building between exterior walls and required fire walls, including the space occupied by interior walls and partitions".

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-5-190
18 August 1987

STANDPIPE AND HOSE SYSTEMS

General Description of Project

The project is a three storey building, 5800 sq. ft. (490.5 sq. m.) per floor, constructed in 1974 and designed to take an additional floor to create a four storey building.

Reason for Application

O.B.C. Regulation 419/86 in Sentence 2.1.1.7.(1) states that where an existing building is extended or is subject to material alteration or repair, the Building Code is applicable only to the design and construction of the extensions and those parts of the building that are subject to the material alteration or repair.

Applicant's Position

In accordance with Sentence 2.1.1.7.(1) the Building Code provisions need only apply to the fourth level.

Building Official's Position

The size and occupancy requirements for fire safety of a four storey mixed-use building would necessitate the installation of a standpipe system for all floors and a sprinkler system for the ground floor retail area. In the case of a vertical extension the conditions in the existing building may adversely affect the standard of safety in the proposed addition therefore reactive fire safety systems should be extended into the existing building.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that Application #87-5-190 is in conformity with the existing Ontario Building Code O. Reg. 419/86.

Reasons

1. The original three storey building was professionally designed and constructed to have a fourth storey added at some future date.

2. The addition was constructed under Ontario Building Code, O. Reg. 419/86 and - 2.1.1.7.(1) states in part "where an existing building is extended, the Building Code is applicable only to the design and construction of the extensions and those parts of the building that are subject to the material alteration".

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-4-189
16 July 1987

BALCONIES

General Description of Project

The project is an apartment building where the balconies on the west and east elevation have been enclosed with metal framed glass screens without a building permit.

Reason for Application

O.B.C. Regulation 419/86 in Sentence 3.2.6.2.(8) states that exterior balconies are required for movement of contaminated air in highrise buildings.

Applicant's Position

The Code has been complied with because in the course of installation of the glass enclosures no elements of the original exterior wall of the building including windows or door egress to balcony were changed.

Building Official's Position

The enclosing of the balconies does not meet Sentence 3.2.6.2.(8) which requires exterior balconies -- the balconies have become interior balconies. This reduces the level of safety of this highrise building because an interior balcony in the event of fire and smoke does not dissipate and dilute the contaminated air to the same level as an exterior balcony.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that Application #87-4-189 does not meet the requirements of the Ontario Building Code O. Reg. 419/86 for those suites with single balconies which are enclosed.

Reasons

The enclosure of exterior balconies restricts smoke dissipation and therefore reduces the level of life safety.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-3-188
16 July 1987

MULTIPLE OCCUPANCY REQUIREMENTS

General Description of Project

The project is a proposed ground floor restaurant of 443 sq. m. facing three streets in a commercial mall. The mall has a building area of approximately 3,530 sq. m. fully protected by an electrically supervised sprinkler system.

Reason for Application

O.B.C. Regulation 419/86 in Article 3.2.2.15. states that a building classified as Group A, Division 2 shall be of non-combustible construction.

Applicant's Position

It is proposed that the kitchen, storage, office and washroom areas of the restaurant be fire separated from the remainder of the restaurant and be considered separate major occupancies to reduce the area of the Group A, Division 2 major occupancy to less than 10% of the floor area.

Building Official's Position

The definition of major occupancy includes subsidiary occupancies and therefore the area of Group A, Division 2 major occupancy exceeds 10% and the building is therefore required to be of non-combustible construction under Article 3.2.2.15.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that Application #87-3-188 meets the intent of the Ontario Building Code O. Reg. 419/86.

Reasons

1. The building excepting the exterior cladding generally meets the requirements of the Code concerning non-combustible construction.

2. The building is fire alarmed and sprinklered as per Code requirements.

3. The kitchen and women's washroom has a 1 1/2 hour fire separation.

4. Travel distance to exits is minimal and all exits open directly to the outside.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION #87-6-103
BY THE 10 September 1987
BUILDING MATERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Steel Tile Co. (Div. 621158 Ontario Limited)
R.R. #1
Thornton, Ontario
LOL 2NO

ON THE SUBJECT OF:

Katech Roofing Panel System, rolled formed and pressed pre-painted, galvalume or galvanized sheet steel shaped in various profiles of tile, coated on the exposed side with poly vinyl.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however, it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

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4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS

6. Except as authorized herein all applicable requirements of the Ontario Building Code Act and Ontario Regulation 419/86 shall be met. A copy of this Authorization shall be kept and maintained on the site of construction.

7. When this roofing system is used for noncumbustible construction all components and support members shall be of noncombustible materials.

8. Conformance shall be made to a current CMHC Evaluation Report, however, in case of conflict with this authorization the more stringent matter shall prevail.

9. Subject to paragraphs herein this roofing system shall be in accordance with the manufacturer's published instructions and installation shall be by the manufacturer's trained qualified tradespersons.

10. In lieu of wood roof sheathing for this roofing system, wood purlins (battens) may be used.

11. For existing roofs, the structural adequacy of the roof framing and the supporting members shall be examined by a qualified manufacturer's representative and a written, signed and dated certificate shall be attached to the manufacturer's warranty with copies to the building official and owner(s).

12. Voids between existing roofing systems and this new roofing system shall not be filled with insulation.

BUILDING MATERIALS EVALUATION COMMISSION

M. Shirlaw, Chairman

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION #87-5-102
BY THE 10 September 1987
BUILDING MATERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act,
Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Shield Source Incorporated
R.R. 5, Municipal Airport
Peterborough, Ontario
K9J 6X6

ON THE SUBJECT OF:

Self-luminous exit sign, Shield Source Inc. Model, Series 101 RW with face colour only in red.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however, it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/...

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS

6. This AUTHORIZATION is only valid when the applicant and/or his agent complies with the Atomic Energy Control Board Radioisotope Licence Number 5-8785-88 (Rev 4) and any future renewals of same. Copies of this B.M.E.C. AUTHORIZATION and the above A.E.C.B. licence shall accompany each sign or group of signs to any one building.

7. This AUTHORIZATION may be used for all new or existing buildings for which a building permit is required.

8. This Shield Source Inc. sign is exempted from the requirement of the Ontario Building Code that requires connection to an electrical circuit separate from other electrical circuits and illumination by emergency power supply where required, also letter colouring.

9. Installation and maintenance shall also comply with Manufacturer's specifications for Shield Source Inc. self-luminous exit sign and a copy shall be supplied with each sign or group of signs to any one building. The sign and bracket shall be securely anchored to the structure of the building with tamper-resistant mounting hardware.

10. Each sign shall be replaced no later than 12 years from date of manufacture however, the manufacturer and/or his agent shall by written registered letter at least 6 months prior to that expiry date notify each sign recipient and the Chief Fire Official of the Municipality regarding the expiry date, replacement and disposal of each sign.

11. The manufacturer and/or his agent shall ensure that each sign is clearly and durably labelled with radiation warnings and U.L. listing as evidence to the nature, activity, expiry date, manufacturer's date, serial number, manufacturer and agents name and address, and in addition the expiry date shall be either embossed, hot stamped, engraved, molded or similar method by which the expiry date becomes an integral part of this Shield Source Inc. exit sign. Such labelling shall be mounted on the bottom outside frame of each sign where it will be clearly visible after installation of such sign.

DATED at Toronto this 10th day in the month of SEPTEMBER in the year 1987 for authorization #87-5-102 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#87-4-101
10 September 1987

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act,
Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Cytrigen Energy Products & Service Limited
P.O. Box 154
Bedford, Nova Scotia
B4A 2X2

AGENT: Doble Enterprises (Div. Precious Steel Industries, Inc.)
17 Galsworthy Drive
Markham, Ontario
L3P 1S7

ON THE SUBJECT OF:

Self-luminous exit sign, Cytrigen Betalight #171 and #172 with face colour only in red.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however, it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

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4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS

6. This AUTHORIZATION is only valid when the applicant and/or his agent complies with the Atomic Energy Control Board Radioisotope Licence Number 2-8526-89A and any future renewals of same. Copies of this B.M.E.C. AUTHORIZATION and the above A.E.C.B. licence shall accompany each sign or group of signs to any one building.

7. This AUTHORIZATION may be used for all new or existing buildings for which a building permit is required.

8. This Cytrigen Betalight sign is exempted from the requirement of the Ontario Building Code that requires connection to an electrical circuit separate from other electrical circuits and illumination by emergency power supply where required, also letter colouring.

9. Installation and maintenance shall also comply with Manufacturer's specifications for Cytrigen Betalight self-luminous exit sign and a copy shall be supplied with each sign or group of signs to any one building. The sign and bracket shall be securely anchored to the structure of the building with tamper-resistant mounting hardware.

10. Each sign shall be replaced no later than 12 years from date of manufacture however, the manufacturer and/or his agent shall by written registered letter at least 6 months prior to that expiry date notify each sign recipient and the Chief Fire Official of the Municipality regarding the expiry date, replacement and disposal of each sign.

11. The manufacturer and/or his agent shall ensure that each sign is clearly and durably labelled with radiation warnings and U.L. listing as evidence to the nature, activity, expiry date, manufacturer's date, serial number, manufacturer and agents name and address, and in addition the expiry date shall be either embossed, hot stamped, engraved, molded or similar method by which the expiry date becomes an integral part of this Cytrigen Betalight exit sign. Such labelling shall be mounted on the bottom outside frame of each sign where it will be clearly visible after installation of such sign.

DATED at Toronto this 10th day in the month of SEPTEMBER in the year 1987 for authorization #87-4-101 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION # 87-3-100
BY THE 12 August 1987
BUILDING MATERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18(4) (b) of the Building Code Act, Revised Statues of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Canadian Insulock Corporation
475 Howe Street, Suite 504
Vancouver, B.C.
V6C 2B3

ON THE SUBJECT OF:

Insulock Building System, a mortarless, interlocking polyurethane block that serves as a permanent form for steel reinforced cast-in-place concrete. For use above or below grade as an exterior or interior insulated bearing wall of combustible construction.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where, in the opinion of the COMMISSION, negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

2/...

4. The AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be in contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. Except as authorized herein all applicable requirements of the Ontario Building Code Act and Regulations shall be met. A copy of this authorization shall be attached to the application for a building permit and a copy shall be kept and maintained on the site of the construction as per code requirements.

7. This AUTHORIZATION is limited to use in buildings where the design is based on engineering analysis of the structural effects of the loads and forces acting on the structure. An architect or professional engineer shall be responsible for this matter.

8. Engineering inspection of the subject construction shall be carried out, to ensure that construction is consistent with the design, by the person responsible for its design details and general review during construction; or by another person qualified in the inspection of this construction and who is reponsible to the design architect or engineer and all construction documents shall be duly sealed.

9. Each installation shall conform to the manufacturer's published installation instructions and shall be reviewed in detail, stamped, dated and signed for construction as specified by the manufacturer or by qualified trained personnel listed by the manufacturer.

10. Each building where the Insulock Building System is installed shall be provided with a mechanical means of air change to provide a minimum of 0.5 air changes per hour on a continuous basis throughout the year.

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11. Precautions shall be taken to keep the Insulock Building System away from heat emitting devices, such as recessed light fixtures, chimneys and direct sun rays. Also, this system shall not be used in direct contact with the ground or water.

12. The Insulock Block shall be manufactured by equipment utilizing direct proportioning pumps, which use a positive displacement fixed ratio basis. This production shall be by qualified trained personnel listed by the manufacturer. Identification cards shall be carried by all personnel.

DATED at Toronto this 12TH day in the month of AUGUST in the year 1987 for authorization #87-3-100 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#87-2-99
12 August 1987

IN THE MATTER OF Section 18(4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Mr. Ragui Ghali
Uthane Research Limited
3400 14th Avenue, Unit 8
Unionville, Ontario
L3R 2L6

AGENT: Icynene Inc.
80 Richmond St. W., Suite 801
Toronto, Ontario
M5H 2A4

ON THE SUBJECT OF:

Goldseal-Icyene 80 TM, a two-component combustible spray in place semi flexible, isocyanurate, open and closed cellular, foamed plastic thermal insulation which may be applied on site or in a manufacturing facility.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

2/...

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the Commission.

AND SPECIFIC REQUIREMENTS:

6. This AUTHORIZATION is further limited to the continuance of a current valid C.M.H.C. Building Materials Evaluation Report #11200 which shall be adhered to.

7. Since at the present time there are no available "Standards"; this AUTHORIZATION determined that the subject matter did satisfy appropriate requirements. However, when the appropriate "Standards" are published, the applicant shall retest to those "Standards", at which time this AUTHORIZATION shall be required to be amended.

8. Follow-up inspection services shall be maintained at all times by the applicant or his agent by an Accredited Testing Organization.

9. Each installation shall conform to the manufacturer's published installation instructions and shall be reviewed in detail, stamped, dated and signed for construction as specified by the manufacturer's listed trained personnel. Identification cards for installers shall be issued only to qualified trained personnel listed by the manufacturer.

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10. Only fixed ratio equipment and the employment of positive displacement pumps for metering shall be used by the trained applicator/installer.

11. Precautions shall be taken around recessed electrical fixtures and or any other heat sources to relieve any heat build up.

12. This sprayed-in-place foamed insulation as described in this subject authorization, shall be for the application only in open cavities where visual control and sampling are relatively easy for the trained applicator/installer.

DATED at Toronto this 12TH day in the month of AUGUST in the year 1987 for authorization #87-2-89 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ontario Ministry of Housing

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

PRESENT POSITION OF APPLICATION

B.M.E.C. #87-1-98
12 August 1987

IN THE MATTER OF Section 18(4)(b) of the Building Code Act R.S.O. 1980, Chapter 51.

AND IN THE MATTER OF an application by:

Dr. Juan Haener
8215 Harton Place
San Diego, California
U.S.A.
92123

AGENT:

TCG Materials Limited
P.O. Box 5000
Burlington, Ontario
L7R 3Y8

ON THE SUBJECT OF:

Haener Stack-King TM Interlocking Blocks...

(a) dry stacking blocks with surface bonding mortar or

(b) dry stacking blocks utilizing the blocks as a permanent concrete forming system, which allows steel reinforcing bars to be located horizontally and vertically within the cast-in-place concrete.

2/...

INFORMATION:

This application has been examined by the Building Materials Evaluation Commission and the finding on the submission by the Applicant is that the subject matter conforms to the requirements for unit masonry in C.S.A. Standard CAN 3-A165 Series M85. The block may be used with any valid B.M.E.C. authorization for surface bonding mortar or used under Part 4 of O.B.C. O. Reg. 419/86.

REASON :

Disposition of this application; and to cease current investigation and examination of the matter.

MOVED AND ADOPTED THIS 12TH DAY OF AUGUST, 1987 BY THE BUILDING MATERIALS EVALUATION COMMISSION.

DATED at Toronto this 12TH day in the month of AUGUST in the year 1987 for position paper #87-1-98 on

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AMENDED
AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

AMENDED
#78-7-15
12 August 1987

IN THE MATTER OF Section 18(4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the applicant:

W. R. Bonsal Company
8201 Arrowridge Blvd.
P.O. Box 241148
Charlotte, N.C., 28224
U.S.A.

ON THE SUBJECT OF:

Surewall (R) Surface Bonding Cement, a glass-fibered Portland cement. This system is applied to the surface of both interior and exterior sides of dry stacked concrete masonry unit construction in lieu of conventional mortar for below or above grade walls.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION, negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may, by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made, subsequent to the effective date of the termination, as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

2/...

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision of change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS:

6. This authorization is limited to use in buildings where the design is based on engineering analysis of the structural effects of the loads and forces acting on the structure, by an architect or professional engineer.

7. Engineering inspection of masonry construction shall be carried out, to ensure that construction is consistent with the design, by the person responsible for its design or by another person qualified in the inspection of masonry construction and who is responsible to the design architect or engineer.

8. The maximum allowable design stresses shall be 15 % of the ultimate stresses of the masonry as determined by tests performed in accordance with ASTM E72-68 "Conducting Strength Tests of Panels for Building Construction"as revised to 1 May 1975. Tests shall be carried out on panels using the same materials and the same thickness of blocks and coatings as proposed to be used in the building under consideration.

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9. This authorization limits the use of this system to walls not greater in height than 7.62 m., (25 ft.), above the top of the foundation wall.

10. Surewall bonding mortar shall meet the Standard Specification ASTM C887-79.

11. The construction of Surewall surface bonded concrete block walls shall comply with the published literature of the W. R. Bonsal Company entitled, "Building with Surewall Surface Bonding Cement".

12. All applicable aspects of the Ontario Building Code shall be complied with except as authorized above.

DATED at Toronto this 12TH day in the month of AUGUST
in the year 1987 for authorization # 78-7-15
amended on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ontario Ministry of Housing

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

December 15, 1986 #86-3-93

Subject: Application to Building Material Evaluation Commission #86-3-93, Isobloc

Further to our letters of 29 April, 22 May and 18 August 1986, please be advised that the subject application is hereby cancelled.

Should you wish to reapply in the future you may do so in the usual manner.

Sincerely,

K.S. Reel
Secretary
Building Materials
Evaluation Commission

KSR/smc

EX70

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

COMBUSTIBLE SERVICES OF PLASTIC PIPING

B.C.C. #87-22-207
25 January 1988

General Description of Project

This is a newly constructed twelve storey residential apartment building (Group C).

Reason for Application

O.B.C. O. Reg. 419/86, Sentence 3.1.4.5.(5) prohibits the use of combustible piping with a flame spread in excess of 25 and a smoke developed classification in excess of 50.

Applicant's Position

ABS piping has been used only for the fixture outlet piping and traps on the kitchen sinks and lavatories in each suite. However, at no time does this ABS piping pass through any part of the building structure, the ABS is limited to the exposed piping and traps within the cupboards and vanities which are of wood construction.

Building Official's Position

The concealed waste piping is metal and conforms to the Code, it is the exposed ABS piping, traps and P.O. plugs that are contrary to Sentence 3.1.4.5.(5).

Commission Ruling

It is the decision of the Building Code Commission concerning application #87-22-207 that having heard the testimony and seen the evidence presented by all parties at this hearing, which clearly shows that an initial inspection by the building official an "order" was issued.

The applicant proceeded to change the materials and requested another inspection, which when completed, resulted in a letter from the Building Official that the "order has been satisfied".

The Building Code Commission, considering the facts presented at this hearing, finds that there is no dispute on the technical requirements of the Building Code O. Reg. 419/86.

Reasons

1. The Applicant took action to comply with the order from the Building Official prior to the date of this hearing.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SPATIAL SEPARATIONS AND LIMITING DISTANCES

B.C.C. #87-21-206
25 January 1988

General Description of Project

A proposed new three storey office building incorporated windows on the east elevation which is 1.5 m from the property line.

Reason for Application

O.B.C., O. Reg. 419/86, Sentence 3.2.3.1.(3) and (6) determines allowable unprotected openings in respect to limiting distance.

Applicant's Position

A distance of 14.2 m has been leased on the east side of the proposed building and thereby increasing the limiting distance which would allow the windows on the east side of this building to be constructed.

Building Official's Position

Limiting distance is defined as the distance between an exposing building face to a property line, however the limiting distance in this case is 1.5 m. The leased adjoining property is not recognized by the Building Code in the determination of limiting distance.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #87-21-206, would provide a sufficiency of compliance to the O.B.C. O. Reg. 419/86 to limiting distance/spatial separation provided that a covenant between the owners of both properties and the Chief Building Official is registered on the title of both properties guaranteeing that, should buildings on either property be constructed, or altered on the adjacent exterior, in any way that would affect the perceived limiting distance, then the parties shall be made to comply with the Building Code in force at that time regarding the unprotected openings on the exposed adjacent faces and the covenant shall run with the title and shall be binding on all three parties, heirs and successors or assigns. A certified copy of this covenant shall be sent to Secretary of the Building Code Commission.

2/...

Reasons

1. Given this covenant, there is no risk to life safety now or in the future.

2. The Chief Building Official's role in signing this covenant is to continue to act as the enforcer of the Building Code should either party make changes to any buildings on either property.

3. This covenant makes it incumbent on all three parties to search the title when a building permit is requested.

4. The agreement presented as exhibit #7 does not adequately meet the requirements of the Building Code.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

REQUIREMENTS FOR EXITS
AND DEAD END CORRIDORS

B.C.C. #87-20-205
26 January 1988

General Description of Project

An existing one storey shopping mall is undergoing renovations of the anchor store to provide a number of small retail stores. A component of these small retail stores is a new public corridor at the rear of such stores which leads to a new exit corridor discharging to the exterior.

Reason for Application

O.B.C. O. Reg. 419/86, Article 3.4.1.2. refers to types of exits such as "interior passageway", however there seems to be no definition of this term and the Code has not adequately addressed the subject. However 3.3.6.4.(1)(b) permits a dead end corridor to exceed the 9 m length.

Applicant's Position

When the travel distance requirements in 3.4.2.4.(1)(b) of 45 m created a problem with the dead end corridor layout, a portion of this public corridor was fire rated (1-Hr.) and converted to an interior passageway, to be viewed as an exit.

Building Official's Position

The building is fully sprinklered and the exit corridor meets all exit requirements for fire-resistance ratings, however the dead end corridor at the rear of the retail stores leading to the exterior exit is classified as an interior passageway which should be viewed not "singley" but in "combination" (see 3.4.1.2.) with consideration to the definition of exit.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #87-20-205 conforms with the Building Code O. Reg. 419/86, as regards to life safety on condition that; as the applicant has agreed that the doors between the suites and the dead end public corridor shall not be fitted with self-locking devices.

Reasons

The lack of self-locking devices ensures that no person could be trapped in the corridor as shown on Exhibits 4 and 6 presented to this Commission.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

DISTANCE BETWEEN EXITS

B.C.C. #87-19-204
26 January 1988

General Description of Project

Two three storey residential apartment buildings under construction containing eighteen suites each and of 518 m^2 each in building area.

Reason for Application

O.B.C. Reg. 419/86, Article 9.9.8.6. requires that where two exits are needed they shall be independent of each other and be placed remote from each other along the path of travel between them.

Applicant's Position

Exit stairs are located independent from each other separated from the other by a corridor. The remoteness of one stair from the other is at issue where we contend that the separation (width of corridor) of exit stairs as presented here is commonly provided in many walk-up apartments throughout the Province.

Building Official's Position

The proximity of the exits being the width of the public corridor and located directly opposite each other, does not comply with the intent of the Code which required exits to be placed remote from each other.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that application #87-19-204 does not meet the requirements of the Ontario Building Code O. Reg. 419/86 regarding remoteness of exits along the path of travel between them.

Reasons

1. The close proximity of the exits does not provide remoteness of exits within the path of travel.

2. The proposed design does not meet the intent of the Code relative to life safety.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

LIVE LOADS DUE TO USE AND OCCUPANCY

B.C.C. #87-18-203
11 December 1987

General Description of Project

An existing office area on the second floor of a shopping mall is proposed to be used as a shoe retail store.

Reason for Application

O.B.C. Ontario Regulation 419/86 in Subsection 4.1.6 and Table 4.1.6.A. requires minimum specified loads for office areas of floors above the first floor to be 2.4 kPa (50 P.S.F.) and retail areas to be 4.8 kPa (100 P.S.F.).

Applicant's Position

Building area on the second floor has an available floor load of 75 P.S.F. provided that the layout of furniture and storage of shoe boxes will remain as they are at the present time and that the amount of shoppers will be limited to 125 people at any one time.

Building Official's Position

The intended use of the subject floor space is for a retail store. Sentence 4.1.6.3.(1) of the Code requires the floor to be designed to support a load "not less than the value listed in Table 4.1.6.A.". There is no provision to accept a lesser loading based on a rationale argument. There are legal and practical reasons for this rigid requirement.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that Application #87-18-203 is a direct contravention of the requirements of the Ontario Building Code O. Reg. 419/86.

Reasons

The floor loading requirements of the Building Code are a minimum.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SPATIAL SEPARATION
BETWEEN BUILDINGS

B.C.C. #87-17-202
11 December 1987

General Description of Project

A proposed twelve storey apartment building has a limiting distance of 1.8 m from the property line, however, a proposed second phase office building is to be constructed on the adjacent property with 22 m limiting distance from the lot line.

Reason for Application

O.B.C. O/Regulation 419/86, Subsection 3.2.3 and Sentence 3.2.3.8.(2) permits a percentage of unprotected openings of plain glass and wired glass, however, the subject building would require all wired glass.

Applicant's Position

Since the office building destined on the lot adjacent to the western exposure of our apartment is regulated by by-law with respect to minimum distance from our building, the problem of fire transmission which lies at the basis of Code requirements (3.2.3.) would not exist. Therefore, total wired glass would produce a detrimental effect on our apartment building.

Building Official's Position

The design incorporated a combination of plain and wired glass to satisfy the Code requirements, however, the apartment building has been located closer to the property line than first approved, which results in the necessity to use wired glass in all the windows.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that based on the present Master Plan there is sufficiency of compliance to the O.B.C. regarding limiting distance/spatial separation provided that a covenant between the owners of both properties and the Chief Building Official is registered on the titles of both properties guaranteeing that, should the buildings on either property be altered from the Master Plan on the exterior in any way, then the parties shall be made to comply with the Building Code in force at that time regarding the unprotected openings on the exposed adjacent faces and the covenant shall run with the title and shall be binding on all three parties, heirs, successors or assigns.

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Reasons

1. Given the Master Plan and this covenant, there is no life safety at risk now or in the future.

2. The Chief Building Official's role in signing this covenant is to continue to act as the enforcer of the Building Code should either party decide to make changes to the buildings or the Master Plan.

3. This covenant makes it incumbent on all three parties to search the title when a building permit is requested.

4. A certified copy of the covenant shall be sent to the Building Code Commission, by registered mail, addressed to the Commission Secretary.

Ontario Ministry of Housing

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

OCCUPANCY CLASSIFICATION
AND EXIT FACILITY

B.C.C. #87-16-201
8 December 1987

General Description of Project

This is a typical car dealership with repair garage, parts-storage areas, offices and customer waiting room.

Reason for Application

1. O.B.C. O/Reg. 419/86, Sentence 3.1.3.1.(6) allows exceptions to major occupancies, however, spray painting is an F1 occupancy, as the entire building has not been designed as an F1 a "firewall" may separate the rest of the building.

2. Article 3.4.7.3. requires "every flight of interior stairs shall have at least three risers".

Applicant's Position

1. Group F, Division 2 includes a "repair garage", however, the spray painting while listed as Group F, Division 1 is by definition of "major occupancy" a subsidiary to the "repair garage" which is the "major occupancy".

2. Article 3.4.7.3. may have some merit, however, 3.4.7.12.(4) allows a single step at an exterior exit door and our interior building conditions represents the same situation without the exterior door, on this basis there is no risk or hazard to life safety.

Building Official's Position

1. To reclassify the entire building as F2 occupancy and consider the spray painting operation (F1 occupancy) as subsidiary occupancy is not permitted under Sentence 3.1.3.1.(6) of the O.B.C.

2. Stair No. 2 is a required exit, under Article 3.4.7.3. a single riser in a flight of interior stairs is not permitted.

Commission Ruling

In favour of the Applicant/Building Official.

1. in the matter of the spray booth, it is a subsidiary use with an F2 occupancy and, therefore, has sufficiency of compliance with the Ontario Building Code.

2. in the matter of the single riser, this is a direct contravention of the Ontario Building Code.

2/...

Reasons

1. The spray booth is a self-contained compartment using a water wash system and a CO^2 fire protection system.

2. The single riser creates a potential accident hazard.

Ontario Ministry of Housing

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

SPATIAL SEPARATIONS BETWEEN BUILDINGS

B.C.C. #87-15-200
8 December 1987

General Description of Project

An existing building is to be renovated and a new extension added to the rear, however, the property line is .61 m from the face of the building. The building wall is adjacent to the neighbour's fire access route and huge grade level parking lot, the proposed renovations and addition will have unprotected openings facing this fire access route and grade level parking lot.

Reason for Application

O.B.C. 0/Reg. 419/86, Sentence 3.2.3.1.(1) requires that the area of unprotected openings shall not exceed that set forth in the Tables and limiting distance applicable to the exposing building face as set out in the Table.

Applicant's Position

The site plan agreement, rights in common covenant and easement indentures are registered on deed with both property owners with respect to development of both properties to be treated basically as one property. With these legal instruments in place, the location of limiting distance should be altered in regard to this existing building's exposing face.

Building Official's Position

Limiting distance as used in the Code is measured from an exposing building face to a property line, rights of easement and rights in common cannot be accepted for this purpose since the Code does not permit it.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that Application #87-15-200 provides sufficiency of compliance with the Ontario Building Code on condition that the applicant and the owners of the adjacent property enter into a covenant and register same on title - to give notice to future owners that, should a building be erected on the adjacent property to the South and/or East of the subject premises, covered by existing agreements, that the then owners shall make such alterations that are necessary to meet requirements of the Building Code in force at that time.

2/...

Reasons

1. The Commission sees no life safety problems at this time - however, the above condition will provide for life safety protection in the future, should conditions change.

2. The applicant agrees to provide a copy of the covenant to the Chief Building Official and to the Building Code Commission.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-14-199
13 November 1987

SPRINKLER SYSTEMS

General Description of Project

A very large food chain store is a major tenant in a single storey shopping mall and as a typical merchandising outlet they have about thirty cashier/customer check out services located underneath several square pyramid shaped canopies adjacent to the front entrance.

Reason for Application

O.B.C. 0/Reg. 583/83, Sentence 3.2.5.5.(1) requires that a sprinkler system shall be designed, constructed and installed in conformance with N.F.P.A.-13.

Applicant's Position

The canopies do not form part of the building structure, but are rather a decorative element. The fabric covering the canopies conforms to the requirements for textile flammability specified in Section 2.3.2 of the Ontario Fire Code, O.Reg. 67/87. The building is of noncombustible construction and completely sprinklered, the area underneath the canopies has a very low combustible load and is open for the occupants to see and react to a fire.

Building Official's Position

The fabric canopies are interior finish as specified in the Building Code. While the fabric complies with flame spread requirements of the Building Code, it is the manner that the canopies are installed in relation to required sprinklers that is in contravention of the N.F.P.A.-13 as specified in Sentence 3.2.5.5.(1) of the Building Code.

The roof level sprinklers will not provide adequate protection to control a fire originating below the canopies, because the canopies themselves would obstruct proper operation of sprinklers by shielding any fire below them.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that this application does not meet the requirements of O.B.C. 0/Reg. 583/83.

2/...

Reasons

1. The level of safety described in the O.B.C. and N.F.P.A. would be lowered.

2. Any condition that would delay prompt operation of automatic sprinklers to control fires at any point by local sprinklers cannot be permitted.

3. The installation of any "umbrella" more than 4'-0" wide requires the installation of sprinklers beneath same.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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SPATIAL SEPARATIONS
BETWEEN BUILDINGS

B.C.C. #87-13-198
13 November 1987

General Description of Project

This is a newly constructed one storey glazed greenhouse/sun room added to the rear of an existing two storey masonry single family dwelling.

Reason for Application

Ontario Building Code Regulation 419/86, Article 9.10.14.15. requires, "openings in every wall that have a limiting distance of less than 1.2 m shall be protected by closures of other than wire glass or glass block a required for the fire-resistance rating of the wall.

Applicant's Position

Realizing that the intent of limiting the area of unprotected openings in a building face with spatial separation is to limit the spread of fire to an adjacent property through heat radiation, the owner has proposed to construct a masonry fence on the property line to act as a "fire shield".

Building Official's Position

The area of the windows not protected is more than Table 9.10.14.A. would allow for the existing limiting distance. Subsection 9.10.14. does not permit the proposed "fire shield" masonry fence/wall. Further, this proposed fence/wall is not addressed anywhere in the Building Code nor does it meet or even approach the Code requirements.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that Application #87-13-198 regarding spatial separation does not meet the requirements of Ontario Building Code Regulation 419/86.

Reasons

1. An independent fire screen wall is not a "Building" as defined in the O.B.C. and is, therefore, not addressed therein. However, the Code allows closures and sprinklers.

2. The height of the proposed wall is governed by the City of Scarborough's fence by-law and would not be high enough to provide protection for these unprotected openings.

3. There is no guarantee of continued maintenance of the wall.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-12-197
28 October 1987

LIVE LOADS DUE TO USE AND OCCUPANCY

General Description of Project

This project consists of the first basement level of an existing building which was originally a passenger car garage, however, a new tenant proposed a health fitness club with a two lane running track surrounding about fifty exercise machines of various types.

Reason for Application

Table 4.1.6.A. of O.B.C. O/R 419/86 lists gymnasia as an example of an assembly area that would require a minimum specified (live) load of 4.8 kPa (100 p.s.f.)

Applicant's Position

The Structural Consultant suggests the proposed occupancy qualified under 4.1.6.A. as a "recreation" area that cannot be used for assembly purposes, this would require a minimum specified (live) load of 3.6 kPa (75 p.s.f.) and the existing floor slab complies with that load. However, when the live load reduction allowance under sentence 4.1.6.3.(9) is applied, this specified (live) load would be reduced to levels approaching 2.4 kPa (50 p.s.f.). With all significant areas of the floor obstructed by exercise equipment, there are no unobstructed areas available to allow "assemblies" of persons to participate in activities normally associated with gymnasia.

Building Official's Position

In sentence 3.1.2.1.(1), every part of a building shall be classified according to its "major occupancy" as belonging to one of the Groups or Divisions described in Table 3.1.2.A., which lists gymnasia as an example of an A2 (assembly occupancy not elsewhere classified in Group A). Sentence 4.1.6.3(1) specifies the load shall be not less than the value listed in Table 4.1.6.A., which lists gymnasia under the heading Assembly Areas and specifies a minimum load of 4.8 kPa (100 p.s.f.). "Assembly Occupancy", this is defined as a gathering of persons for recreational or like purposes and that this use is an A2 gymnasium.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that Application #87-12-197, would have sufficiency of compliance with Ontario Building Code, O. Reg. 419/86 on condition that the equipment in the exercise area as indicated on Exhibit 14 (drawing #107) be securely fixed to the floor slab to the satisfaction of the Chief Building Official.

Reasons

1. The fixed equipment prohibits the room from being used for assembly purpose.

2. The P. Eng. for the applicant has agreed to affix his stamp to the documents concerning the slab strength for the proposed exercise area.

3. The Exercise Area has a ceiling height of approx. 8'-0" which prohibits its use as a gymnasium.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-11-196
28 October 1987

STORAGE GARAGE

General Description of Project

A proposed new second floor is to be constructed on an existing one storey library building and will extend out over the existing open air parking area.

Reason for Application

Sentence 3.3.7.6.(11) of the Ontario Building Code O. Reg. 419/86 requires a storage garage to have at least 1 1/2 hour fire separation from other occupancies.

Applicant's Position

The second storey extension of the library over the existing parking area, will leave the parking area open on three sides and separated by 1 hour fire resistance rated floor assembly above. The first storey of the existing library is separated from the parking area by an existing glazed vertical separation. However, a drive lane between the parking area and the adjoining library glazed wall would remain with four parking spaces for the handicapped.

Building Official's Position

By virtue of its occupancy, a "roofed" parking area becomes by definition a "storage garage" in the Code. Therefore, a separation of at least 1 1/2 hours shall be provided from any other occupancy.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that Application #87-11-196 does not meet the requirements of the Ontario Building Code O. Reg. 419/86. However, the Commission rules that a sufficiency of compliance with the O.B.C. may be achieved if a permanent structure is installed to prevent vehicular access to the adjacent area of the glazed vertical separation.

Reasons

1. The parking area will be separated by a spatial opening from the adjoining glazed library wall by about 20'-0".

2. The library floor above the garage will have a minimum fire resistance rating of one hour.

3. The parking area will remain open along three sides of its perimeter.

Ontario Ministry of Housing

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-10-195
8 October 1987

OPENINGS FOR COMMUNICATION STAIRWAYS

General Description of Project

A new multi-storey office building proposes to interconnect the ninth and tenth floors also the third and fourth floors. This interconnection would be for open stairs to facilitate internal circulation and communication within these single tenancies.

Reason for Application

Ontario Building Code Reg. 419/86, Clause 3.2.8.1.(7)(a) states that openings for stairways shall not exceed $10m^2$.

Applicant's Position

The Ontario Building Code permits the interconnection of floors by openings similar to the proposed stairs; however, the proposed openings are approximately $17m^2$ in this area. Fire protection requirements of Sentence 3.2.8.1.(7) will be implemented in this design, these include close-spaced sprinklers and a heat baffle along the open perimeter of the through-floor opening.

In addition, even though not required by the Code, smoke detectors, connected to the building fire alarm system will be installed along the open perimeter of the stair openings.

Building Official's Position

The proposed stair openings of this building exceed the allowable permitted openings between floors of $10m^2$ in area.

Commission Ruling

In favour of the Applicant. It is the decision of the Building Code Commission that Application #87-10-195 has sufficency of compliance with the Ontario Building Code, O. Reg. 419/86 with respect to life safety.

Reasons

The openings between the third and fourth floors and the ninth and tenth floors in this building are protected by:

a) close-spaced sprinklers in accordance with NFPA-13,
b) smoke baffles in accordance with NFPA-13,
c) smoke detectors on all four sides of the perimeters of the openings on the ceilings of each lower floor,
d) the building is fully sprinkled in accordance with NFPA-13,
e) each floor area has been provided with the required exits in addition to these convenience stairs.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

B.C.C. #87-9-194
8 October 1987

WALL SHEATHING PAPER

General Description of Project

This project consists of approximately forty homes. Each of these homes are two-storey with attached garage, construction is wood with brick veneer.

Reason for Application

Ontario Building Code Reg. 583/83, Article 9.23.17.3.states that at least one layer of sheathing paper shall be applied beneath masonry veneer.

Applicant's Position

Wall cuts through the masonry veneer at the habitable area of the houses clearly revealed the presence of building paper behind the masonry veneer. However, inspection holes through the garages revealed the lack of building paper. To overcome this apparent violation of the Code, we propose the following solutions: 1) coat the outside surface of the masonry with a waterproof, but water vapour permeable, spray emulsion; 2) inject moisture resistant urethane foam insulation in the air space over each stud. These and other similar solutions would prevent moisture penetrating the veneer and contacting the wood structural frame and tentest sheathing.

Building Official's Position

Subsection 9.23.17. of the Code clearly states that at least one layer of sheathing paper is required behind masonry veneer. The possibility of wind driven water passing through the brick veneer and soaking the tentest sheathing and the frame wall components, jeopardizes the wall's capacity to safely carry the load. The presence of an air space between the tentest sheathing and the brickwork is essential to enable unimpeded drying of any moisture passing through. Some walls in question are located less than 4'-0" to the lot line, thereby requiring a fire resistance rating. Any water penetration can also adversely affect the gypsum board finishes in these cases.

Commission Ruling

In favour of the Building Official. It is the decision of the Building Code Commission that Application #87-9-194 does not meet the requirements of Article 9.23.17 of O. Reg. 583/83. However, equivalency of compliance may be obtained as outlined in Article 9.3 if carried out to the satisfaction of the Chief Building Official.

Reasons

The integrity of the structures must be protected from unnecessary risk of deterioration by the elements.

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

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Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#87-9-106
9 December 1987

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act, Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Dansk Eternit-Fabrik A/S.,
Sohgaardsholmsvej 2
P. O. Box 763
DK - 9100 Aalborg,
Denmark

AGENT:

C. Pacenza Roofing Imports
365 Barton Street
Stoney Creek, Ontario
L8E 2K4

ON THE SUBJECT OF:

Cembonit B7 Fibre Cement Corrugated Sheet Roofing, this is a Portland cement matrix reinforced with organic fibres and having an additional cement bonded coloured top layer and an acrylic faced final surface coating.

THE COMMISSION HEREBY AUTHORIZES to the Applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

2/...

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however, it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS

6. Except as authorized herein all applicable requirements of the Ontario Building Code Act and Ontario Regulation 419/86 shall be met. A copy of this Authorization shall be kept and maintained on the site of construction.

7. When this roofing system is used for noncumbustible construction all components and support members shall be of noncombustible materials.

8. Conformance shall be made to a current CMHC Evaluation Report, however, in case of conflict with this authorization the more stringent matter shall prevail.

9. Subject to paragraphs herein this roofing system shall be in accordance with the manufacturer's published instructions and installation shall be by the manufacturer's trained qualified tradespersons.

10. In lieu of wood roof sheathing for this roofing system, wood purlins (battens) may be used.

11. For existing roofs, the structural adequacy of the roof framing and the supporting members shall be examined by a qualified manufacturer's representative and a written, signed and dated certificate shall be attached to the manufacturer's warranty with copies to the building official and owner(s).

12. Voids between existing roofing systems and this new roofing system shall not be filled with insulation.

DATED at Toronto this 9TH day in the month of DECEMBER in the year 1987 for authorization # 87-9-106 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION

Ministry of Housing
Ontario

Building Code Commission
Building Materials Evaluation Commission

Rulings

This is a summary of the decision or authorization.
Further information may be obtained by writing to the Commission Secretary, 777 Bay St., Toronto, Ont. M5G 2E5

AUTHORIZATION
BY THE
BUILDING MATERIALS EVALUATION COMMISSION

#87-7-104
9 December 1987

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act,
Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Alloycraft Limited
12 Raitherm Road
Toronto, Ontario
M6B 1S6

ON THE SUBJECT OF:

#2006 Safety Mirror Backing. Film reinforced backing materials for framed mirrored glass, sliding or folding, wardrobe reach-in clothes closet doors, as an alternative to hardboard, plywood or particleboard.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.

2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.

3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however, it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.

2/...

5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS

6. The applicable standard for this AUTHORIZATION shall be CAN 2 - 82.6 - M 85 "Mirrored Glass, Sliding or Folding, Wardrobe Doors".

7. Labelling of each mirror, shall also indicate conformance to the applicable standard number, title, Fabrene woven/coated polyethylene and five year warranty on the mirror and backing.

8. Installation of the film backing shall conform to the manufacturers published installation instructions and recommendations as submitted to the COMMISSION to date of this AUTHORIZATION to provide a proper bond at lamination. There shall be no exposure of adhesive to surface contaminates on the glass.

9. The manufacturer shall record testing involving aging of the adhesive and backing to determine and correct if degradation occurs.

DATED at Toronto this 9TH day in the month of DECEMBER in the year 1987 for authorization # 87-7-104 on behalf of:

BUILDING MATERIALS EVALUATION COMMISSION